



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

May 2022

June 30, 2022

Alberta Environment and Parks

11th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T5K 2J6

Subject: **Peace Airshed Zone Association (PAZA)**
May 2022 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of May 2022.

The representative of the Person Responsible for this monitoring program is:

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This report was prepared by Dr. Kevin McCullum and reviewed by Mandeep Dhaliwal.

PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr Kevin McCullum to provide data validation and reporting.

This report is submitted by PAZA on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals listed in Table A

The monthly summary report includes the operational summaries and hourly continuous monitoring and monthly passive results. The Milner station is being reported under the PAZA Monthly report.

Continuous Monitoring:

Eight (8) Stations including Henry Pirker (Grande Prairie), Dunes, Smoky Heights, Beaverlodge, Valleyview, Donnelly, Poplar-Portable and Milner.
Detailed Summaries are included in the report

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for May 2022 were submitted to the ETS data system.

Table A. PAZA members with Facility Operating Approvals

Company	Facility	LSD	EPEA Approval No.
Advantage Oil & Gas Ltd.	Glacier	05-02-076-13-W6	00262479-00-00
Alberta Power (2000) Ltd. (an ATCO company)	Sturgeon	SW-06-069-21-W5	00010283-02-02
ATCO Power Canada	Poplar Hill	11-19-073-08-W6	00067774-01-01
ATCO Power Canada	Valleyview	SW-06-069-21-W5	00147709-01-01
AltaGas Ltd.	Pouce Coupe	03-03-081-13-W6	00247673-00-00
	Ante Creek	02-26-068-25-W5	00266694-00-00
	Gordondale	02-26-068-25-W5	00287474-00-00
Apache Canada Ltd.	House Mountain	01-08-070-10-W5	00010137-02-02
Birchcliff Energy Ltd.	Pouce Coupe	03-22-078-12-W6	00252529-00-00
Canadian Natural Resources Limited	Bonanza	11-25-081-11-W6	00000029-01-00
	Progress/Gordondale	01-01-077-10-W6	00010036-02-00
	Gold Creek	13-26-067-05-W6	00010446-02-00
	Teepee Creek	SE-2-074-04-W6	00001635-02-00
	Sturgeon/Valleyview	02-02-069-22-W5	00001633-02-00
Canfor Forest Products	Grande Prairie	SW-23-071-06-W6	00152645-01-00
Conocophillips Canada Energy Partnership	Wembley	06-19-073-08-W6	00000212-01-00
Encana Corporation	Sexsmith	04-08-075-07-W6	00010002-01-00
Enerplus Resources	Pouce Coupe	SW-06-069-21-W5	00001464-02-03
Exshaw Oil Corporation	Spirit River	03-10-077-07-W6	00344521-00-00
Grande Prairie Generation Inc.	Northern Prairie Power Project	04-19-073-08-W6	00238762-00-00
Inception Exploration Ltd.	Gold Creek	03-26-069-05-W6	00335317-00-02
KANATA Energy Group Ltd.	Valhalla	13-21-076-09-W6	00017620-02-02
Long Run Exploration	Eaglesham	01-25-076-01-W6	00241532-00-00
	Kakut	14-12-075-03-W6	00248469-00-00
	Donnelly	06-01-077-21-W5	00000087-02-00
	Puskwaskau	03-26-074-01-W6	00017524-01-00
Longview Oil Corp.	Sunset House	06-22-070-20-W5	00138884-01-00
Milner Power Limited Partnership	H.R. Milner thermal electric power plant	SE-15-058-08-W6	00009814-03-03
NorthRiver Midstream Inc.	Fourth Creek	16-11-082-09-W6	00000263-01-00
	Gordondale	11-26-079-09-W6	00011495-01-01
	Pouce Coupe/Bonanza	03-23-080-13-W6	00070203-01-01
Penn West Petroleum Ltd.	Tangent	13-29-080-23-W5	00001746-02-00
	Pouce Coupe	16-07-078-11-W6	00000614-01-00
Petrus Resources	Rycroft	08-25-077-06-W6	00011351-02-00
	Spirit River	08-34-077-06-W6	00011096-02-00
Strathcona Resources Ltd.	Jayar Sour Gas Processing Plant	06-08-062-03 W6	03612040-00-00
Suncor Energy Inc.	Progress	07-22-078-09-W6	00011428-02-00
Tidewater Midstream and Infrastructure Ltd.	Pipestone Sour Gas Plant	NW-35-70-9 W6	00403309-00-00
Veresen Energy	Hythe Brainard	11-18-074-12-W6	00010910-02-00
Weyerhaeuser Canada	Grande Prairie Pulp and Wood Plant	01-14-070-05-W6	00000113-02-00

Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

There were no readings above the AAAQO or AAAQG in the month

Operational times less than 90 percent:

All stations reported above 90% operational times except for:

PM_{2.5} at Dunes, analyzer failed during the month, resulting in 139 hours removed and 7hrs of maintenance, with 80% operational uptime and 79% valid data (ref#400790).

Air Incidents

None were reported

Deviations from Authorized Monitoring Methods

None to report

Passive Monitoring

- 49 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories
- There were 17 duplicates sampled in the month of May
 - Seven SO₂ duplicates located at Guy, Jean Cote, High Prairie, Duvernay 2, Kinuso, Jayar3 Bone Yard, Wanyandie; RPD ranging from 8% to 62% (one fail at Duvernay 2)
 - One O₃ duplicate located at Kinuso; RPD 4% (no fails)
 - Six NO₂ duplicates at McLennan, Kinuso, Eaglesham, Peavine, Jayar4 7-8 or 8-8 Pad, Powerline; RPD ranging from 6% to 15% (no fails)
 - Three H₂S duplicates, Girouxville 3, Duvernay 2, Jayar1 Plant; RPD 0% to 8% (no fails)
- The Girouxville 4 sample was exposed for approximately three months due to site access issues, the time exposed was factored into the calculation.
- There were no exceedances of the AAAQOs for all monitored parameters at any of the passive monitoring stations during this month.

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall previously collected by Milner Power Limited
- There was one duplicate sampled collected for each in the month of May
 - RPD ranged from 25% to 29%
- Total dustfall ranged from 19.4 to 54.8 mg/100cm²/30day
- Collection field notes noted - On collection Dustfall sample was dry

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.

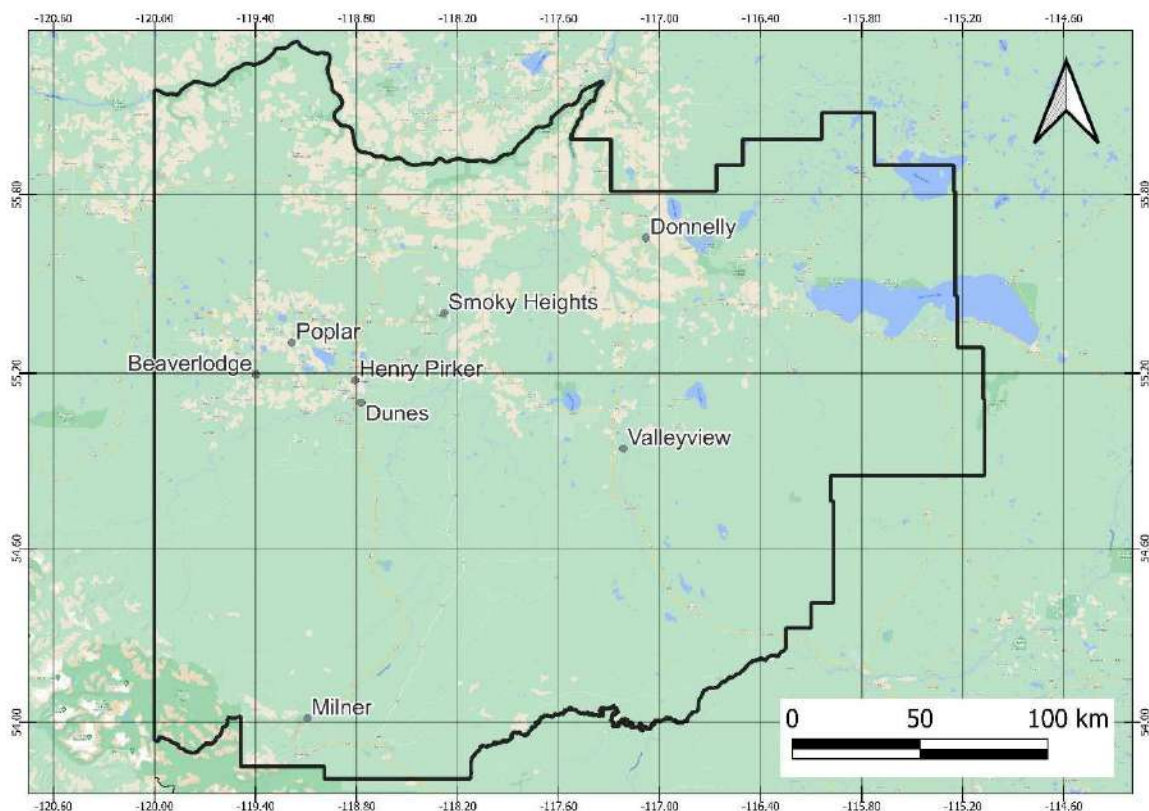


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Program Manager

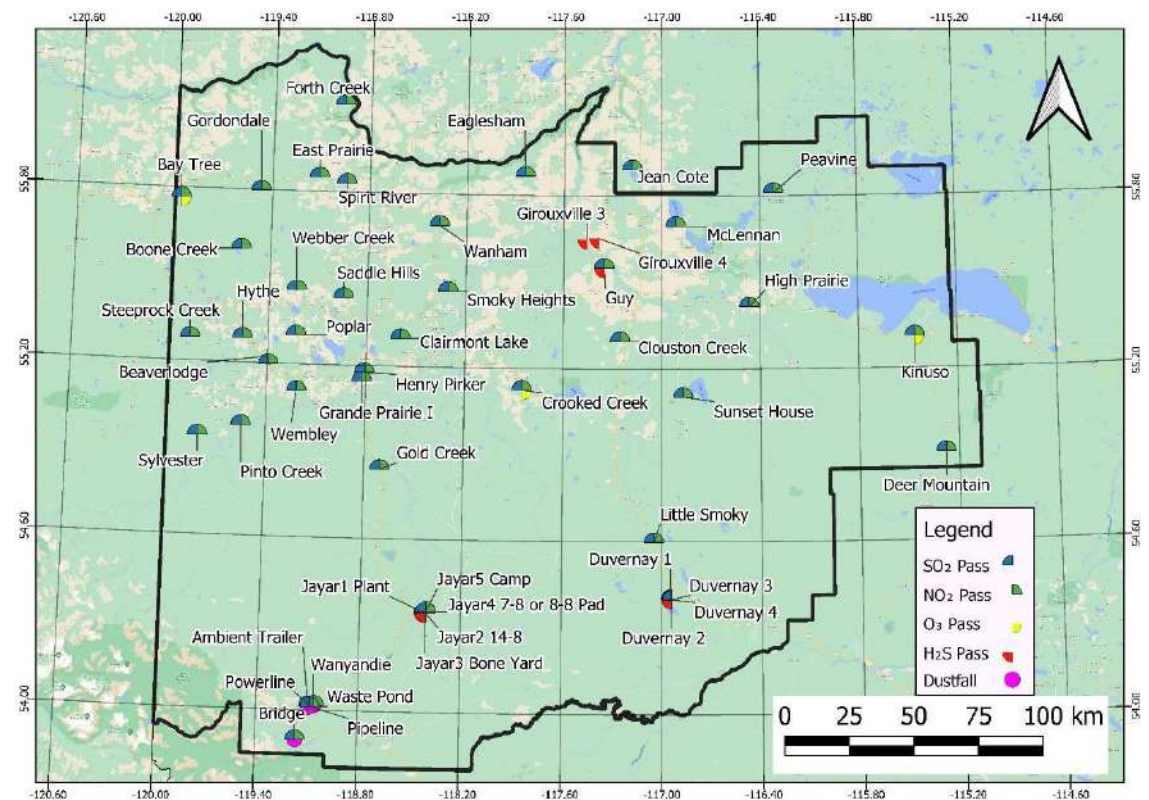
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 May Monthly Station Summaries

The following summaries are for the equipment and data results from the continuous ambient monitoring network

1.1 Beaverlodge Air Monitoring Station

PAZA - May 2022 Beaverlodge Station Report

May - May 2022 Decontamination Status Report																
Parameter	May			Operational	1-hour			24-hour			Exceedance				Calibration Date	
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d		
NO (ppb)	0.3	0.0	94.1%	98.9%	14.3	-	May-27 08:00	1.9	-	May-27	-	-	-	-	May 03, 2022	
NO ₂ (ppb)	2.0	0.3	94.1%	98.9%	13.5	159	May-27 07:00	4.2	-	May-27	0	-	-	-	May 03, 2022	
NO _x (ppb)	2.4	0.4	94.1%	98.9%	28.0	-	May-27 08:00	6.2	-	May-27	-	-	-	-	May 03, 2022	
O ₃ (ppb)	36.2	4.6	95.3%	100.0%	53.7	76	May-21 16:00	41.3	-	May-15	0	-	-	-	May 03, 2022	
PM _{2.5} (µg/m³)	2.1	0.0	99.7%	100.0%	16.7	80	May-02 12:00	7.2	29	May-02	0	-	0	-	May 02, 2022	
SO ₂ (ppb)	0.4	0.0	95.3%	100.0%	16.3	172	May-15 11:00	1.4	48	May-16	0	-	0	0	May 02, 2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	8.0	-3.7	100.0%	100.0%	19.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	59.5	17.0	100.0%	100.0%	99.9											
WS (km/hr)	12.2	0.2	100.0%	100.0%	36.4											
WD (deg)	285	0.7	100.0%	100.0%	354.4											
Average Wind Direction										285 WNW						

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	Perm tube required replacement, May 14, 8hrs of maintenance
O ₃	Thermo	49iQ	No Operational issues noted
PM _{2.5}	Sharp	5030	No Operational issues noted
SO ₂	Thermo	43i-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.2 Dunes Air Monitoring Station

PAZA - May 2022 Dunes Station Report

May 2022																
May					1-hour			24-hour			Exceedance				Calibration	
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
PM _{2.5} (µg/m³)	2.5	0.0	79.6%	80.4%	19.3	80	May-27 04:00	8.2	29	May-27	0	-	0	-	May-09-2022	
SO ₂ (ppb)	1.6	0.0	95.3%	100.0%	34.9	172	May-08 09:00	17.0	48	May-08	0	-	0	0	May-12-2022	
TRS (ppb)	0.2	0.0	95.2%	100.0%	2.4	-	May-03 07:00	0.4	-	May-03	-	-	-	-	May-12-2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	8.7	-3.3	100.0%	100.0%	20.5											
RH (%)	57.7	14.0	100.0%	100.0%	98.2											
WS (km/hr)	4.7	0.0	100.0%	100.0%	14.6											
WD (deg)	289	1.1	100.0%	100.0%	360.0											
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%																
Average Wind Direction 289 WNW																

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	TEOM AB	139 hours removed due to equipment failure, 7hrs of maintenance
SO ₂	TECO	43i	No Operational issues noted
TRS	TECO	43C	No Operational issues noted
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - May 2022 Henry Pirker Station Report

May 2022 Henry White Station Report															
Parameter	May			Operational	Max	1-hour		8-hour / 24-hour			Exceedance				Calibration
	Average	Minimum	Valid			Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.7	0.0	95.0%	100.0%	21.5	-	May-12 07:00	3.0	-	May-31	-	-	-	-	May 16, 2022
NO _x (ppb)	4.0	0.2	95.0%	100.0%	22.7	159	May-16 07:00	7.4	-	May-16	0	-	-	-	May 16, 2022
NO ₂ (ppb)	4.8	0.3	95.0%	100.0%	42.0	-	May-12 07:00	10.4	-	May-31	-	-	-	-	May 16, 2022
O ₃ (ppb)	33.8	1.0	95.3%	100.0%	54.6	76	May-21 20:00	43.4	-	May-22	0	-	-	-	May 16, 2022
PM _{2.5} (µg/m³)	2.3	0.0	99.6%	100.0%	22.9	80	May-21 23:00	5.2	29	May-21	0	-	0	-	May 13, 2022
SO ₂ (ppb)	0.2	0.0	95.2%	100.0%	9.7	172	May-16 22:00	1.6	48	May-16	0	-	0	0	May 16, 2022
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	3.4	10	May-05 21:00	0.4	3	May-27	0	-	0	-	May 13, 2022
CH ₄ (ppm)	2.1	2.0	95.3%	100.0%	2.7	-	May-12 07:00	2.2	-	May-18	-	-	-	-	May 09, 2022
THC (ppm)	2.1	2.0	95.3%	100.0%	2.8	-	May-12 07:00	2.2	-	May-12	-	-	-	-	May 09, 2022
NMHC (ppm)	0.0	0.0	95.3%	100.0%	0.1	-	May-28 05:00	0.0	-	May-12	-	-	-	-	May 09, 2022
CO (ppm)	0.2	0.1	95.3%	100.0%	0.4	13	May-18 08:00	0.2	5	May-18	0	0	-	-	May 09, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	9.6	-3.0	100.0%	100.0%	22.2	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
RH (%)	54.9	15.1	100.0%	100.0%	88.5										
SR (W/m²)	173.7	0.0	100.0%	100.0%	788.2										
WS (km/hr)	9.2	0.2	100.0%	100.0%	33.1										
WD (deg)	274	3.5	100.0%	100.0%	358.8										
Average Wind Direction									274	W					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	421Q	No Operational issues noted
O ₃	TECO	49I	No Operational issues noted
PM _{2.5}	Sharp	5030	No Operational issues noted
SO ₂	TEI	43I-TLE	No Operational issues noted
H ₂ S	TEI	450I	No Operational issues noted
THC/CH ₄ /NMHC	TEI	55I	No Operational issues noted
CO	TEI	48I-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.4 Smoky Heights Air Monitoring Station

PAZA - May 2022 Smoky Heights Station Report

May					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m³)	2.0	0.0	99.6%	100.0%	34.3	80	May-21 22:00	6.3	29	May-21	0	-	0	-	May 24, 2022
SO ₂ (ppb)	0.2	0.0	95.3%	100.0%	5.7	172	May-28 17:00	0.6	48	May-24	0	-	0	0	May 24, 2022
TRS (ppb)	0.1	0.0	95.2%	100.0%	0.7	-	May-18 02:00	0.2	-	May-24	-	-	-	-	May 24, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	8.8	-3.8	100.0%	100.0%	20.5	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	13.3	0.3	100.0%	100.0%	38.9										
WD (deg)	271	0.2	100.0%	100.0%	359.5	Average Wind Direction271WNW									

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No Operational issues noted
SO ₂	TECO	43I	No Operational issues noted
TRS	TEI	43I APSAA	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.5 Valleyview Air Monitoring Station

PAZA - May 2022 Valleyview Station Report

AAR - May 2022 Valleyview Station Report															
May				1-hour				24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.1	0.0	95.3%	100.0%	0.8	172	May-25 10:00	0.2	48	May-16	0	-	0	0	May 25, 2022
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.6	10	May-30 05:00	0.2	3	May-24	0	-	0	-	May 25, 2022
Average		Minimum	Valid	Operational	Maximum										
Temp (°C)	9.4	-2.7	95.0%	95.0%	23.9										
RH (%)	65.1	15.9	100.0%	100.0%	100.6										
WS (km/hr)	4.8	0.1	99.7%	99.7%	18.3										
WD (deg)	282	0.4	99.7%	99.7%	360.0										
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%															
Average Wind Direction									282 NW						

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43I-APSCB	No Operational issues noted during the month
H ₂ S	TEI	450I-APHAA	No Operational issues noted during the month
Met Equip	RMYoung	RMY86004	ET had 37 hrs removed due to probe fail; Wind data had 2 hrs removed due to unusual fluctuations

1.6 Donnelly Air Monitoring Station

PAZA - May 2022 Donnelly Station Report

AER - May 2022 Dormitory Station Report															
Parameter	May				Max	1-hour		24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Operational		Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
SO ₂ (ppb)	0.1	0.0	94.9%	99.6%	1.2	172	May-27 11:00	0.3	48	May-24	0	-	0	0	May 11, 2022
H ₂ S (ppb)	0.1	0.0	94.9%	99.6%	1.8	10	May-29 22:00	0.3	3	May-06	0	-	0	-	May 11, 2022
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	9.0	-3.5	99.6%	99.6%	20.7	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
WS (km/hr)	11.0	0.1	99.6%	99.6%	39.6										
WD (deg)	273	1.3	99.6%	99.6%	360.0										
Average Wind Direction										273	W				

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	Teco	43I	May 8 communications issue (3hrs)
H ₂ S	Thermo	45C	May 8 communications issue (3hrs)
Met Equip	RMYoung	5103	May 8 communications issue (3hrs)

1.7 Poplar Air Monitoring Station

PAZA - May 2022 Poplar Station Report

May 2022 Operational Report															
Parameter	May			Operational	1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid		Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.5	0.0	94.5%	99.3%	15.7	-	May-27 07:00	2.8	-	May-27	-	-	-	-	May 04, 2022
NO ₂ (ppb)	2.4	0.2	94.5%	99.3%	18.0	159	May-21 00:00	6.1	-	May-31	0	-	-	-	May 04, 2022
NO _x (ppb)	2.9	0.2	94.5%	99.3%	28.1	-	May-27 06:00	8.2	-	May-31	-	-	-	-	May 04, 2022
O ₃ (ppb)	34.6	1.1	94.6%	99.3%	54.7	76	May-21 18:00	43.3	-	May-22	0	-	-	-	May 04, 2022
PM _{2.5} (µg/m³)	1.1	0.0	98.3%	98.7%	11.4	80	May-05 13:00	2.6	29	May-21	0	-	0	-	May 05, 2022
SO ₂ (ppb)	0.8	0.0	94.8%	99.3%	15.2	172	May-25 08:00	2.1	48	May-22	0	-	0	0	May 04, 2022
TRS (ppb)	0.4	0.1	94.5%	99.3%	3.1	-	May-22 07:00	0.5	-	May-22	-	-	-	-	May 05, 2022
CH ₄ (ppm)															
THC (ppm)	2.2	2.0	94.6%	99.3%	3.4	-	May-30 07:00	2.4	-	May-21	-	-	-	-	Apr 19, 2022
NMHC (ppm)															
	Average	Minimum	Valid	Operational	Maximum										
Temp (°C)	8.2	-3.5	99.3%	99.3%	19.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction283WNW									
WS (km/hr)	14.8	0.2	99.3%	99.3%	41.1										
WD (deg)	283	0.8	99.3%	99.3%	359.8										

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42I	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)
O ₃	TEI	49I	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)
PM _{2.5}	Thermo	TEOM AB	May 7 comm failure (2hrs); May 5 power failure (3hrs); Negative drift (<3µg/m³, 5hrs)
SO ₂	TEI	43I	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)
TRS	TEI	43I	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)
THC/CH ₄ /NMHC	TEI	55I-A3PHAA	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)
Met Equip	MetOne	50.5	May 7 comm failure (2hrs removed); May 5 power failure (3hrs removed)

1.8 Milner Air Monitoring Station

PAZA - May 2022 Milner Station Report

May					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.4	0.0	93.6%	98.4%	12.5	-	May-30 08:00	2.3	-	May-30	-	-	-	-	May 26, 2022
NO ₂ (ppb)	3.5	0.1	93.6%	98.4%	18.1	159	May-15 09:00	5.2	-	May-15	0	-	-	-	May 26, 2022
NO _x (ppb)	3.9	0.0	93.6%	98.4%	26.2	-	May-05 09:00	5.9	-	May-15	-	-	-	-	May 26, 2022
PM _{2.5} (µg/m³)	6.5	0.0	95.0%	96.1%	32.4	80	May-27 14:00	10.7	29	May-15	0	-	0	-	May 26, 2022
	Average	Minimum	Valid	Operational	Maximum										
WS (km/hr)	6.2	0.0	98.4%	98.4%	29.5										
WD (deg)	243	2.6	98.4%	98.4%	359.4										
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%															
Average Wind Direction										243	WSW				

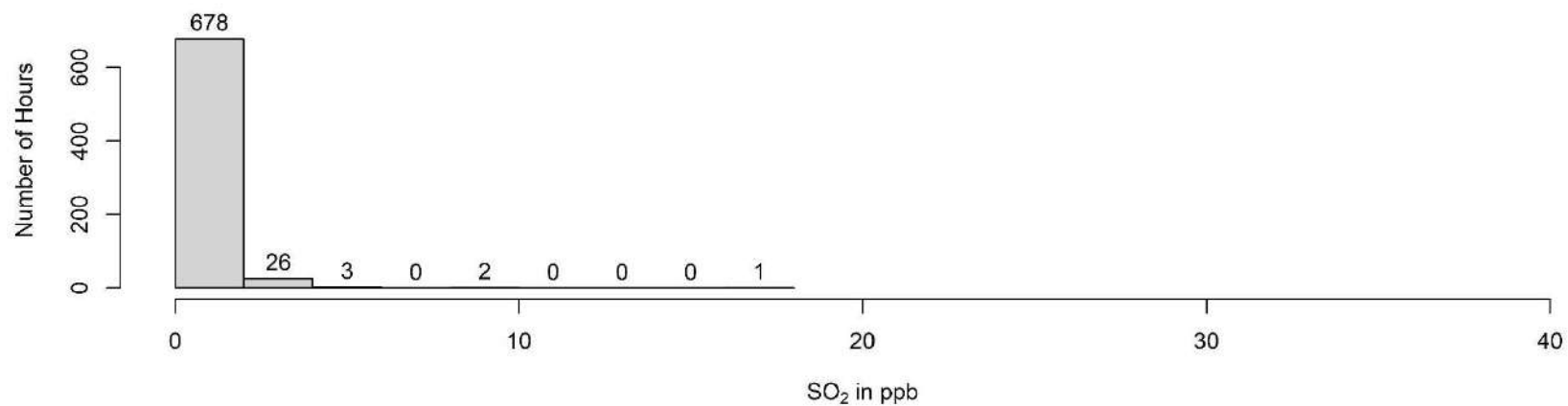
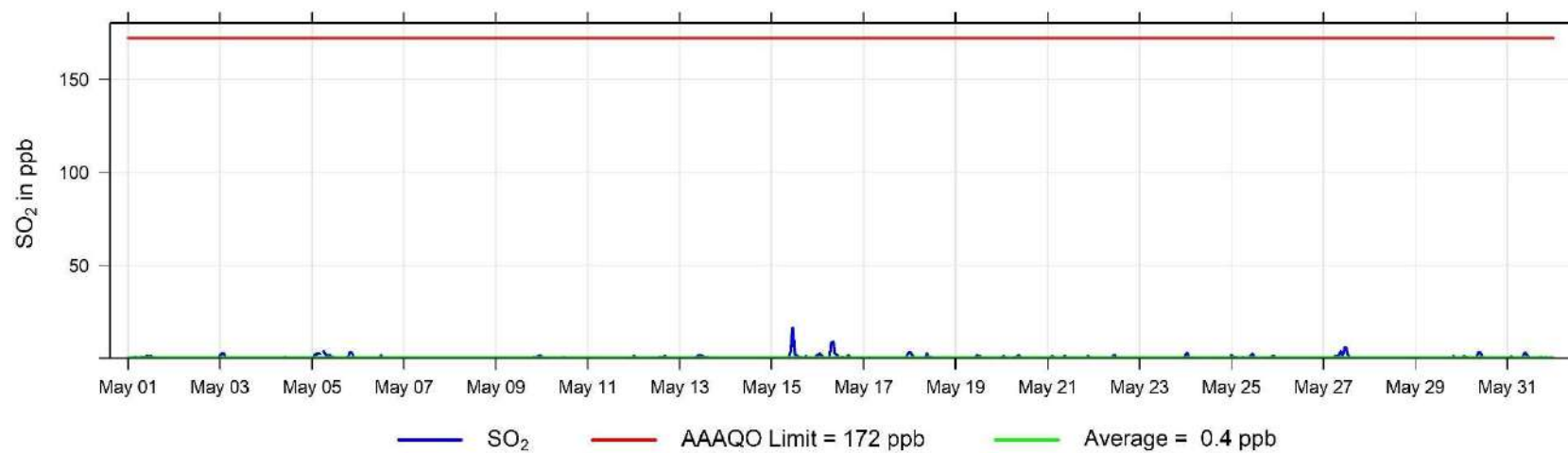
Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	May 9-10 Communications failure, 12 hrs removed
PM _{2.5}	TEOM	AB	May 9-10 Communications failure, 12 hrs removed; 2hrs removed of data less than -3µg/m³
Met Equip	MetOne	50.5	May 9-10 Communications failure, 12 hrs removed

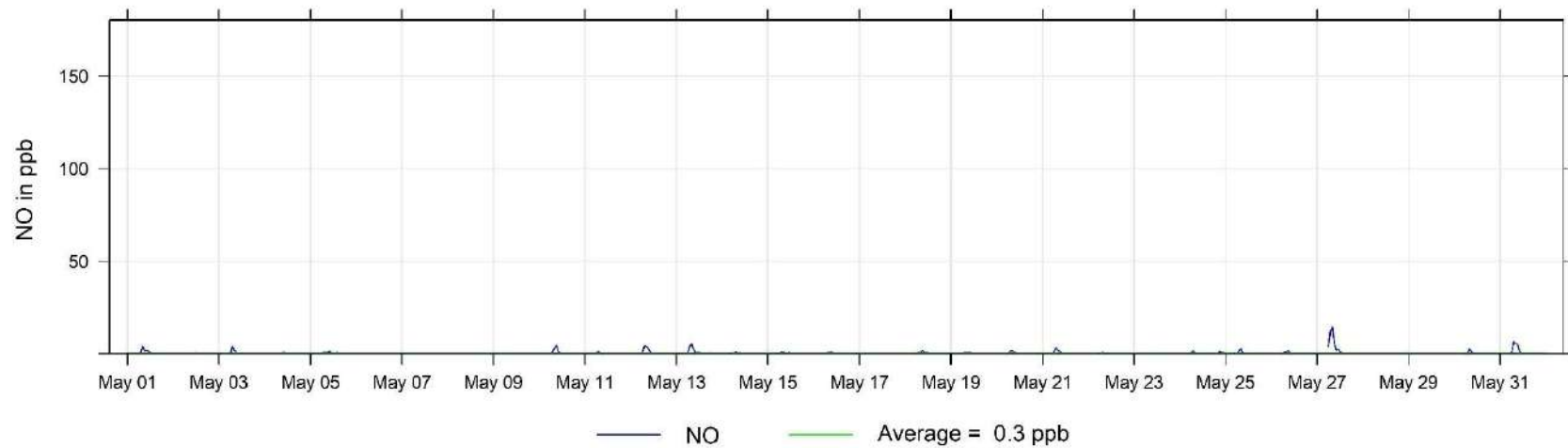
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

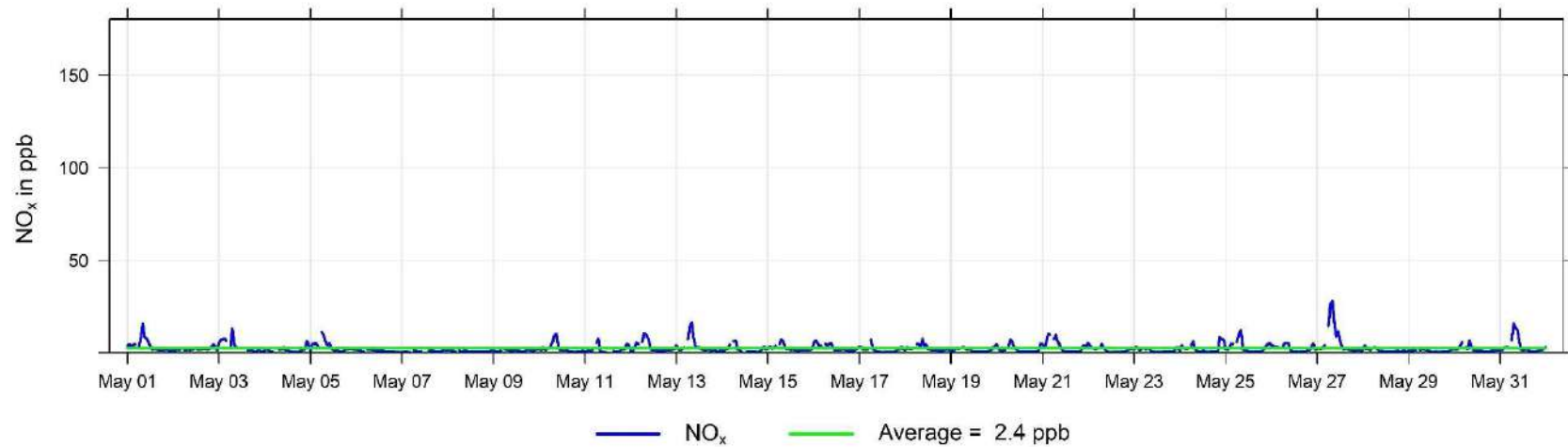
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



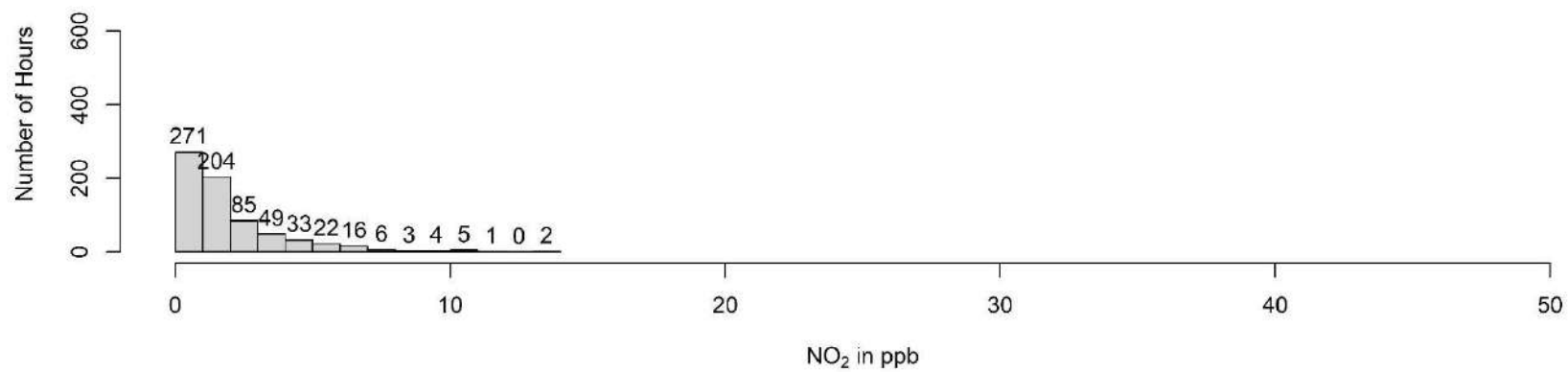
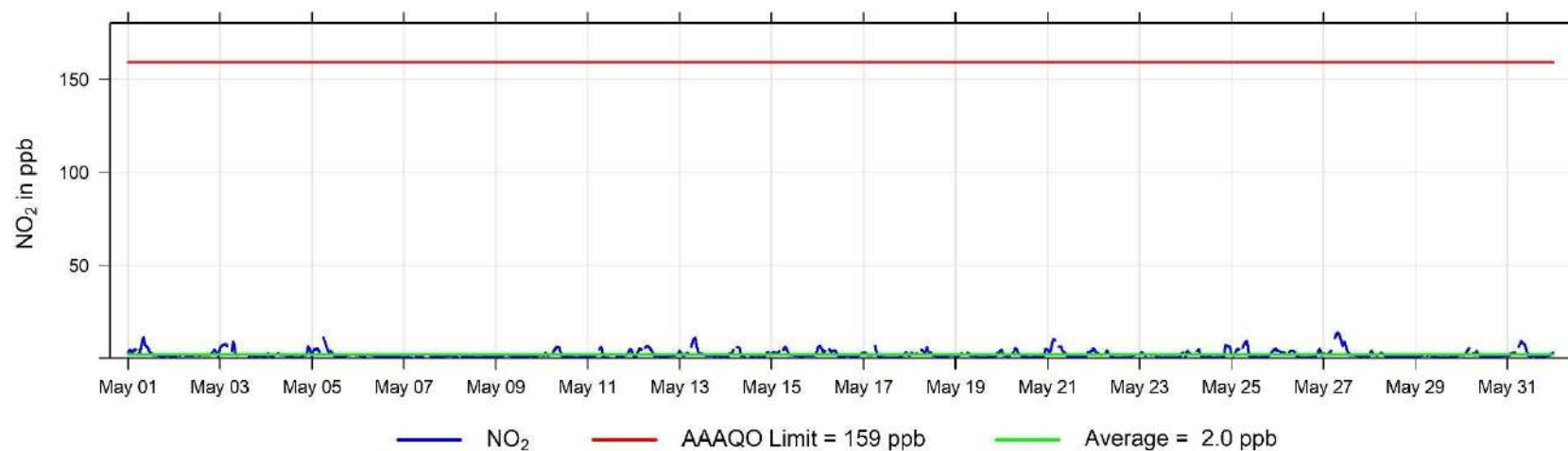
May 2022 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



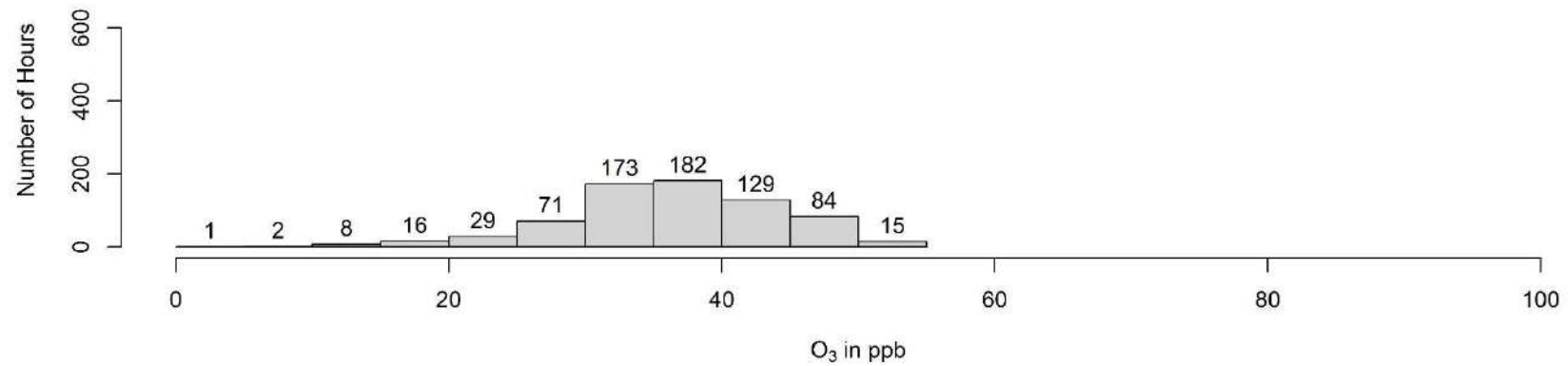
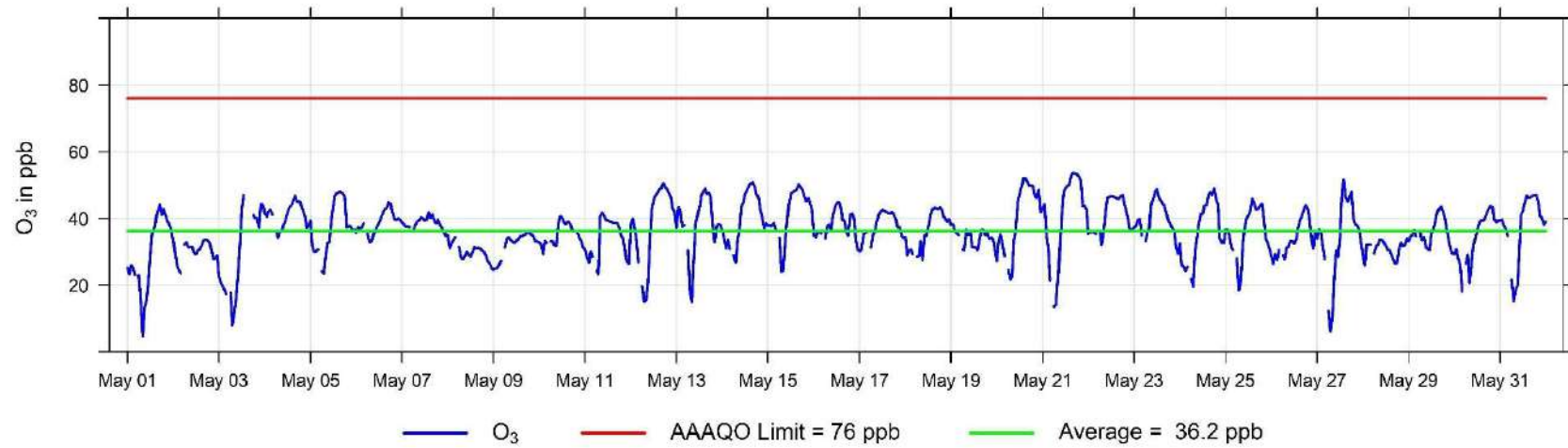
May 2022 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



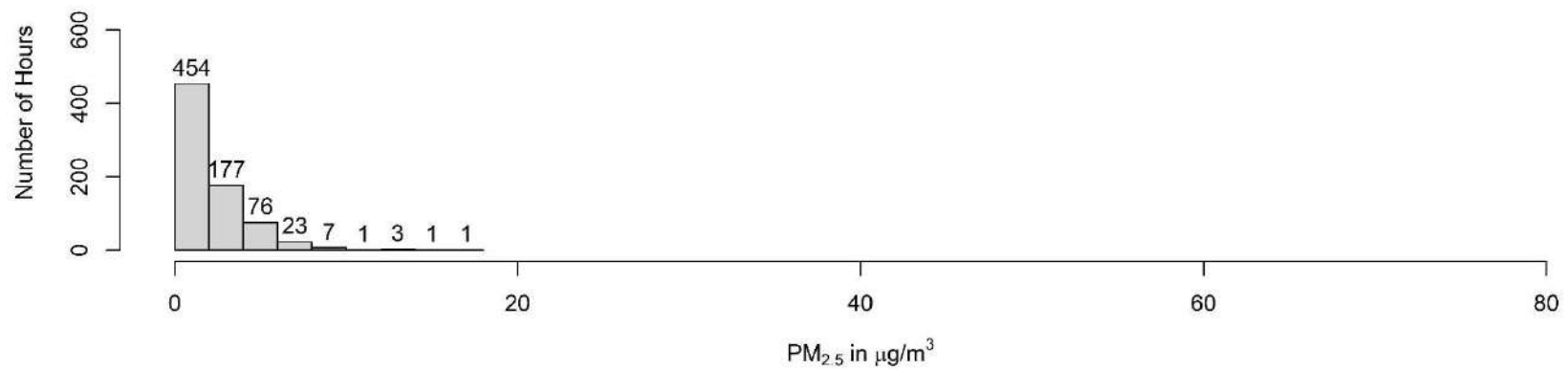
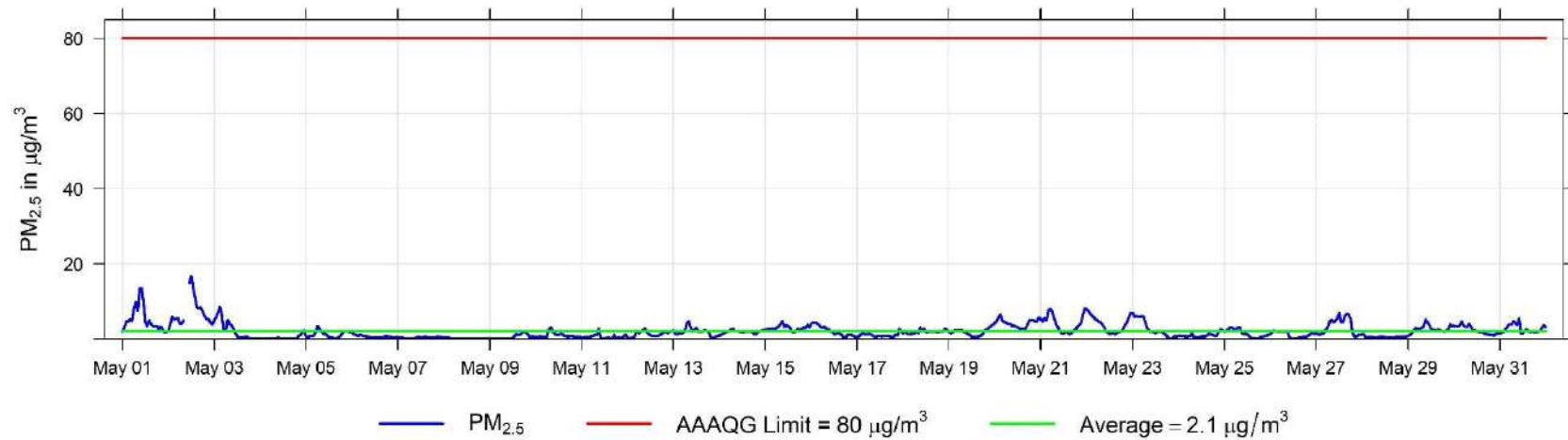
May 2022 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



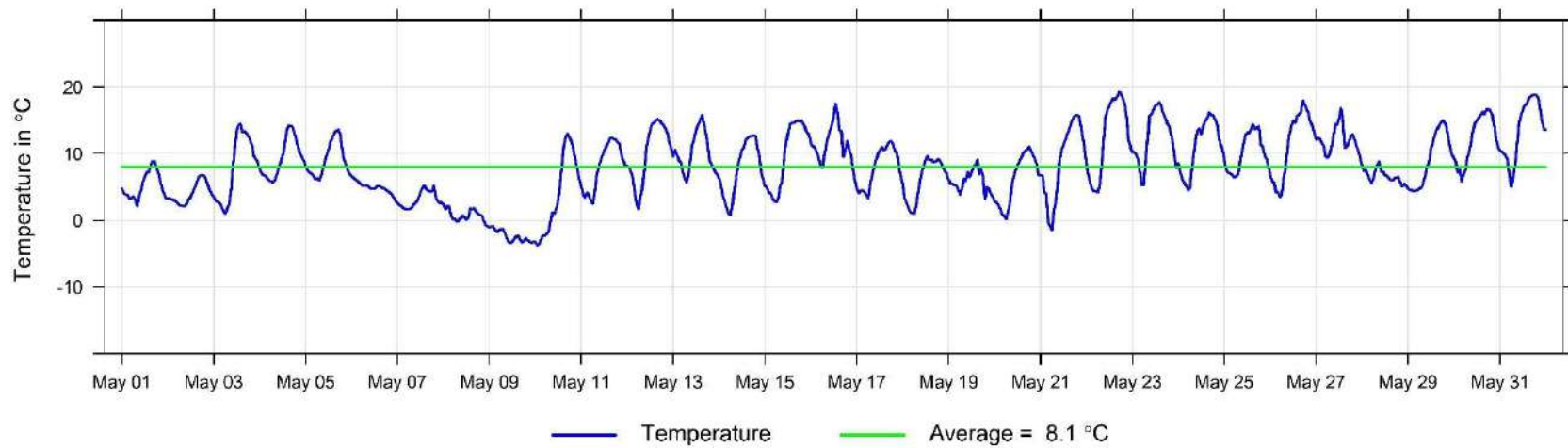
May 2022 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



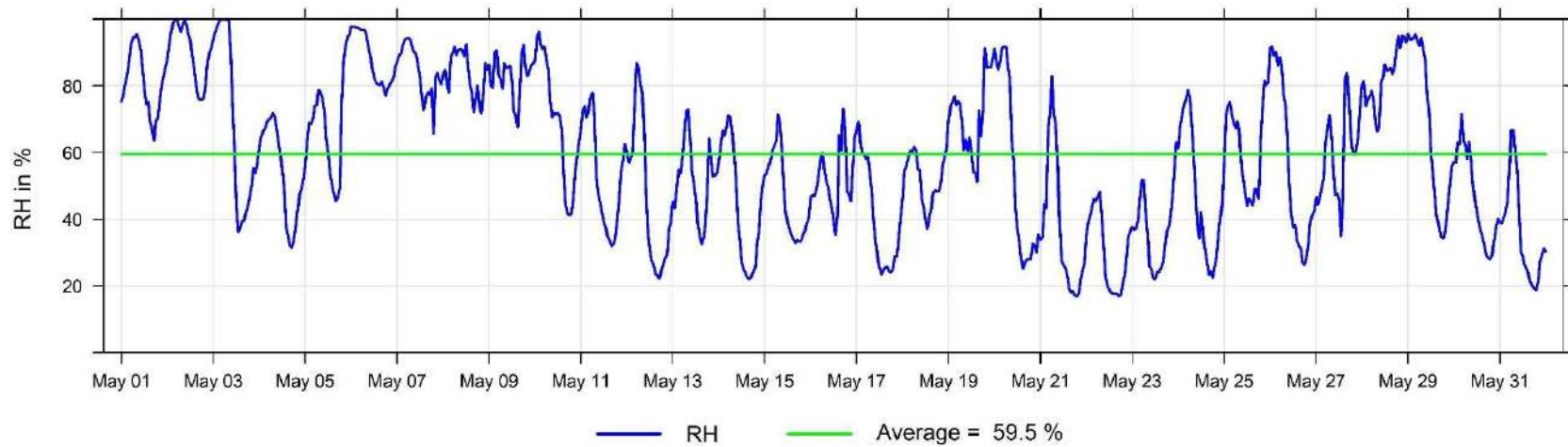
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



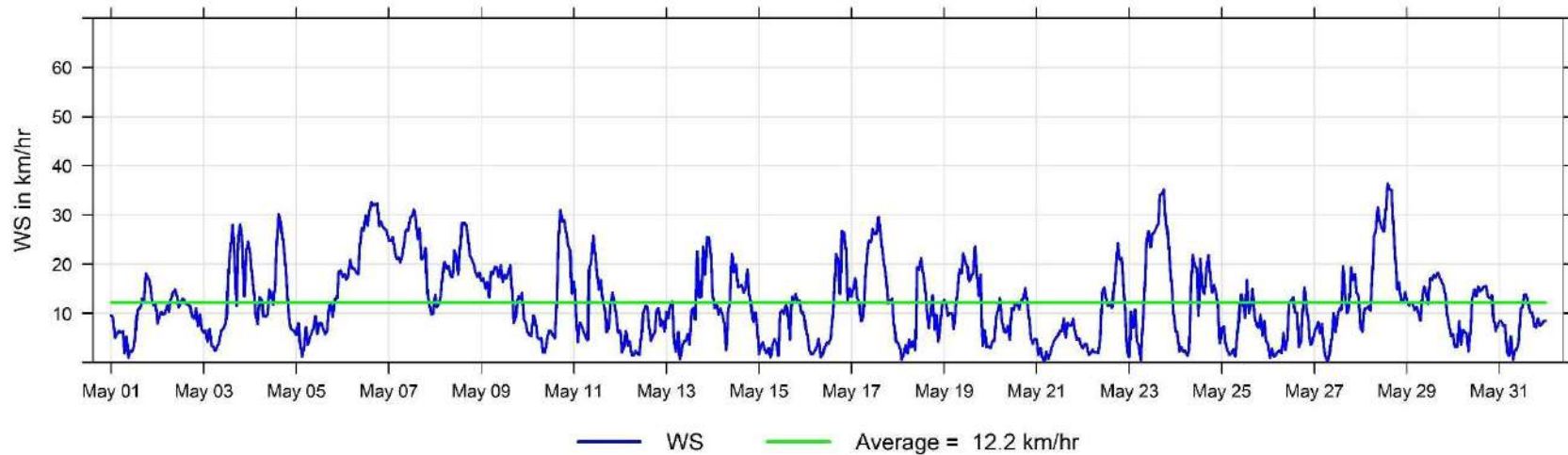
May 2022 Hourly Temperature Readings (in °C) at Beaverlodge



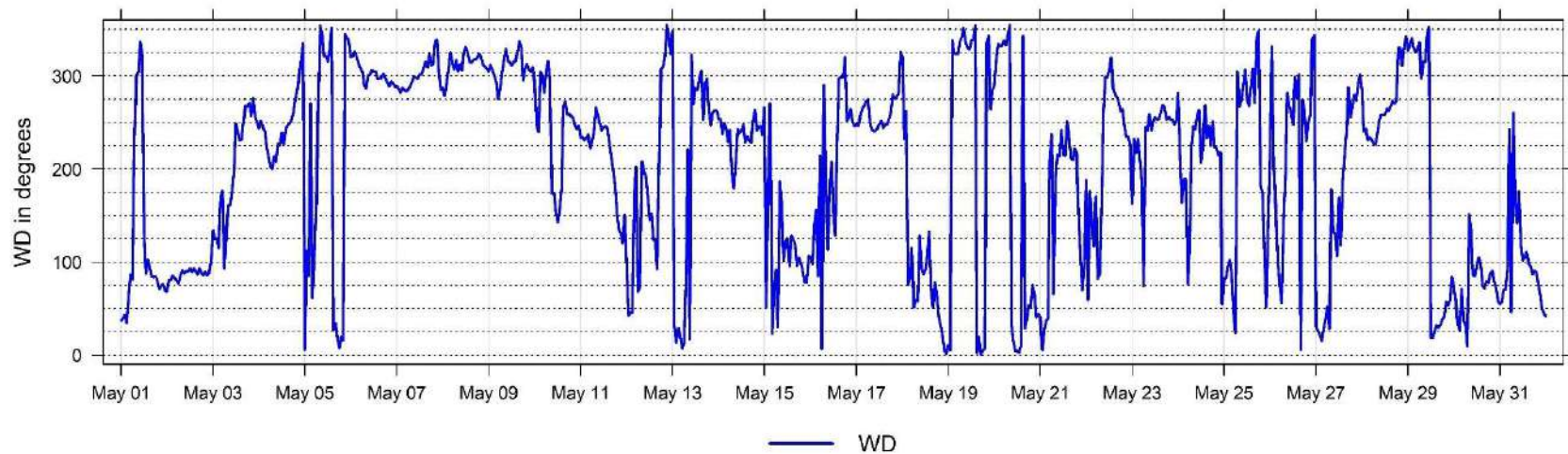
May 2022 Hourly Readings of Relative Humidity (in %) at Beaverlodge



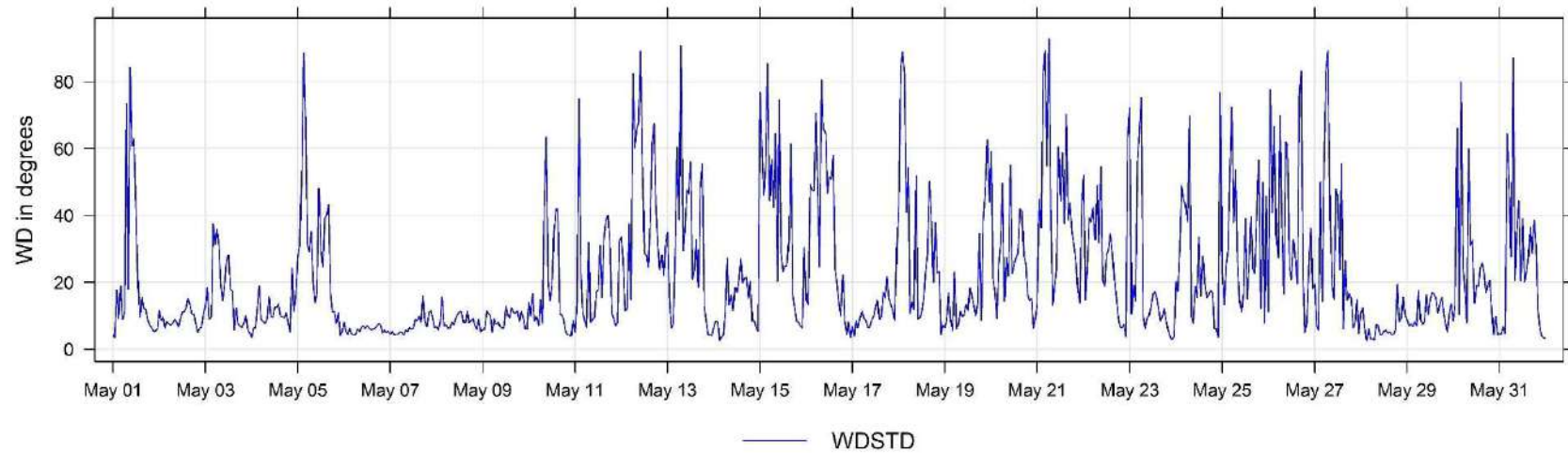
May 2022 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

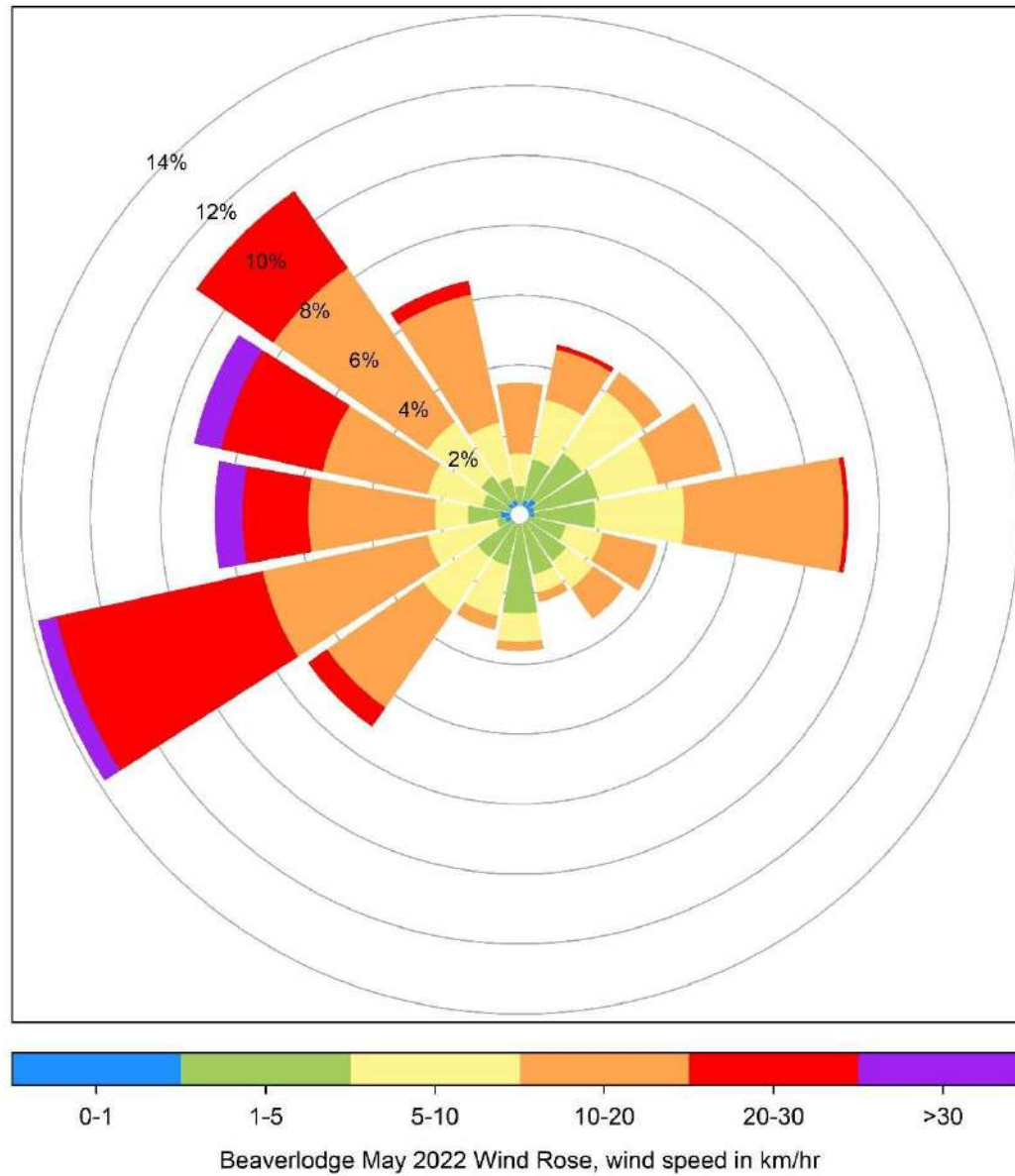


May 2022 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge

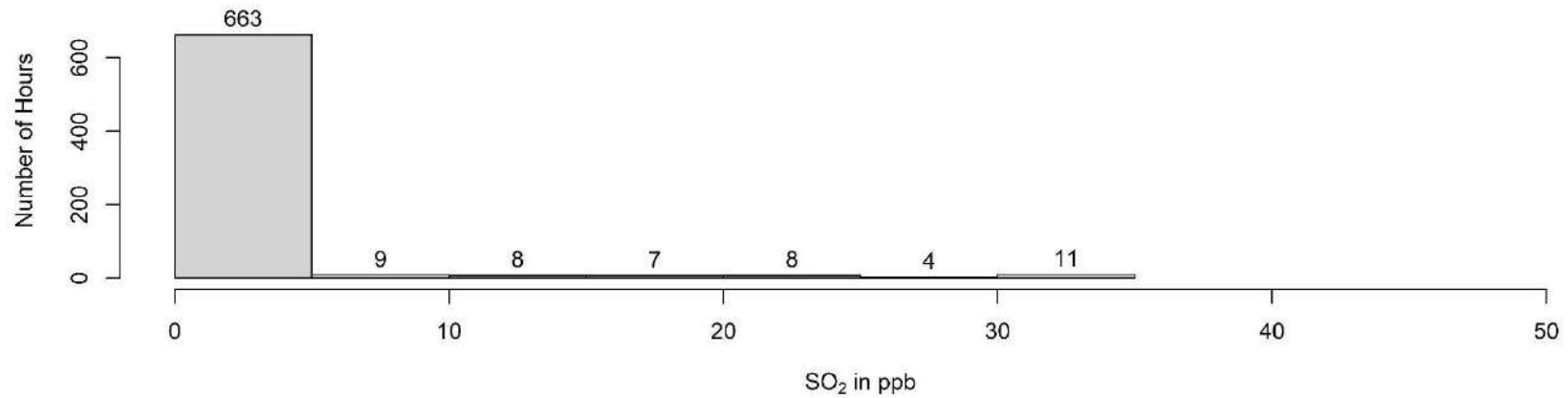
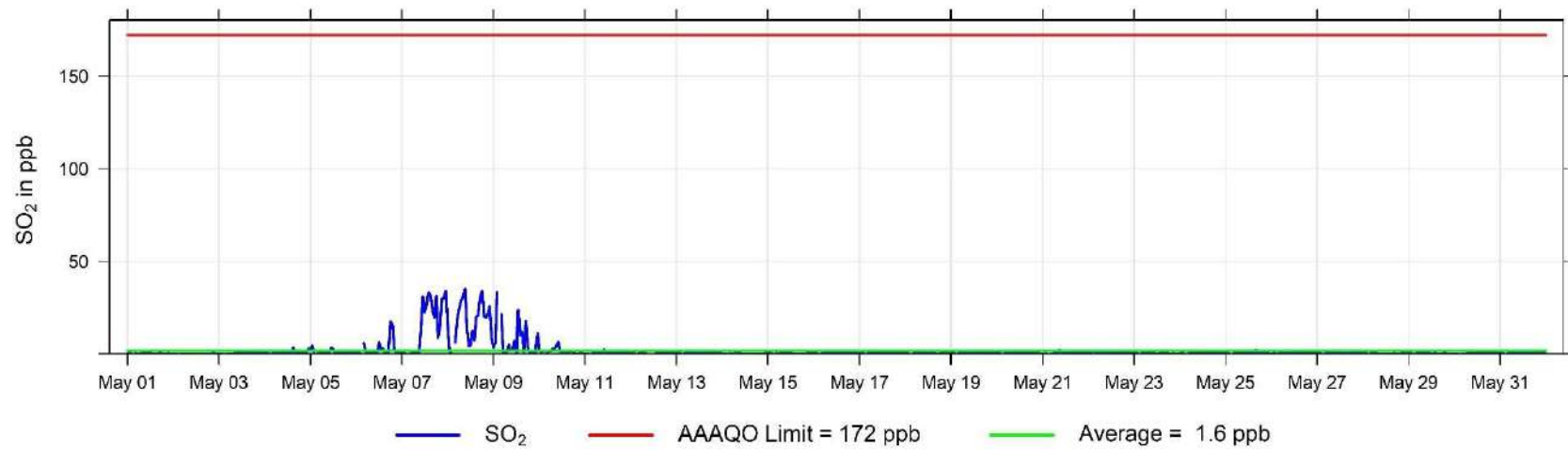




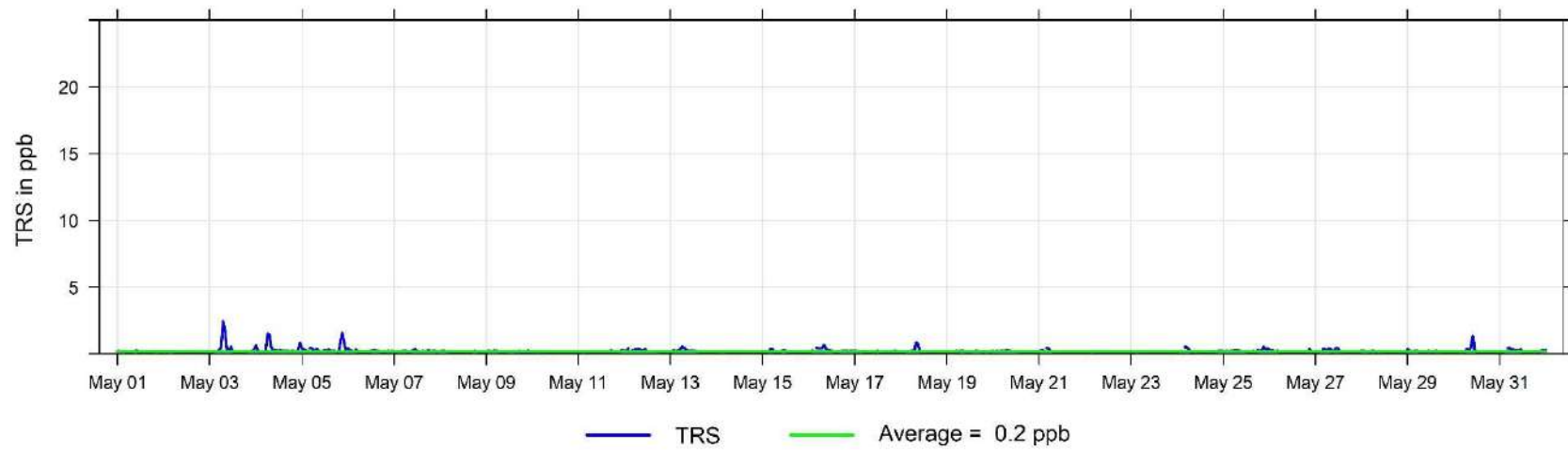
3 Dunes Charts

The following pages include the charts and histograms for Dunes Station

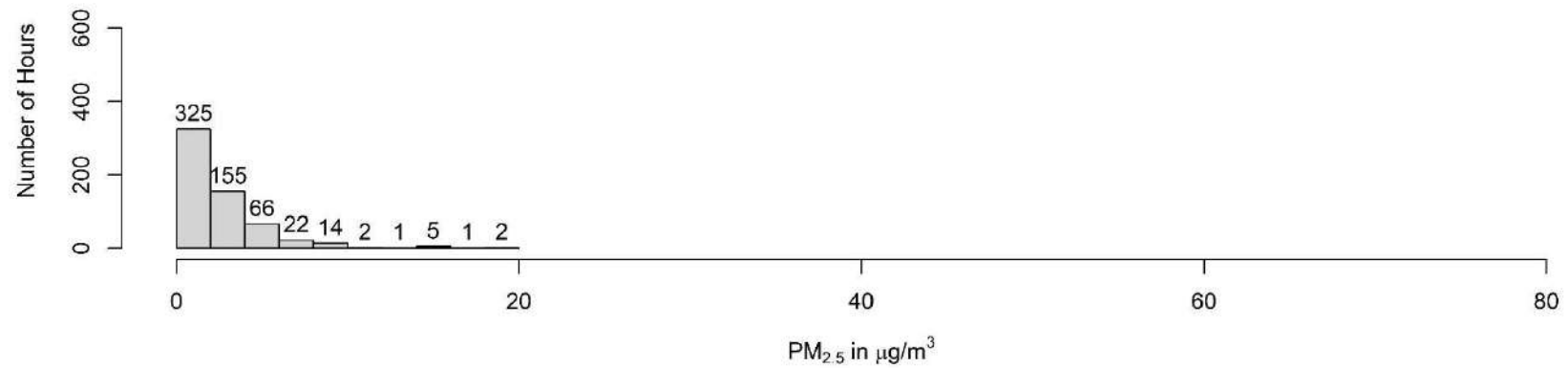
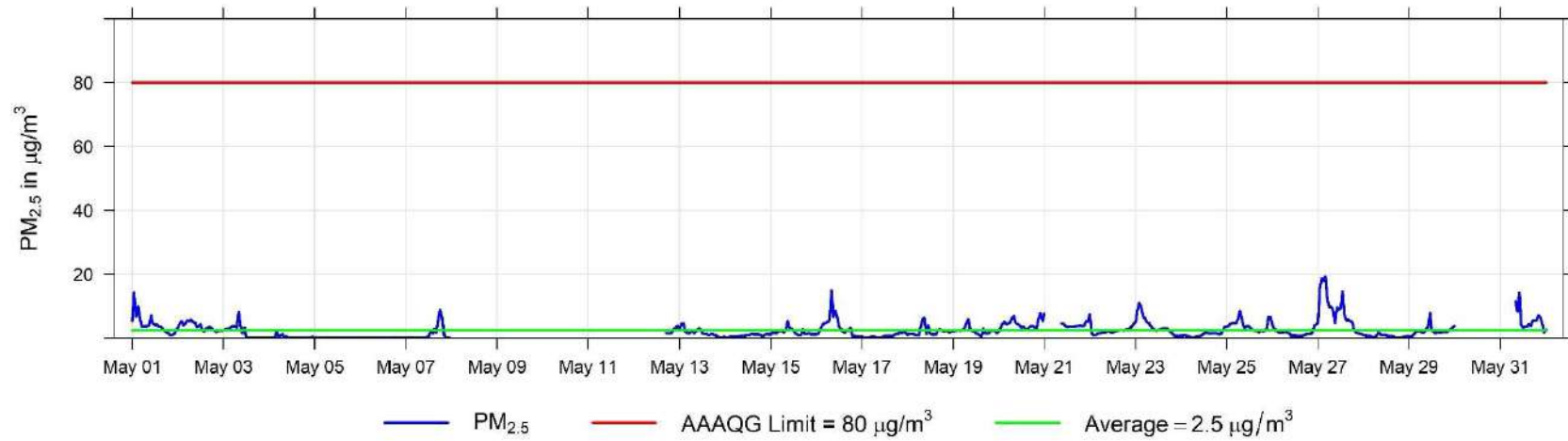
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Dunes



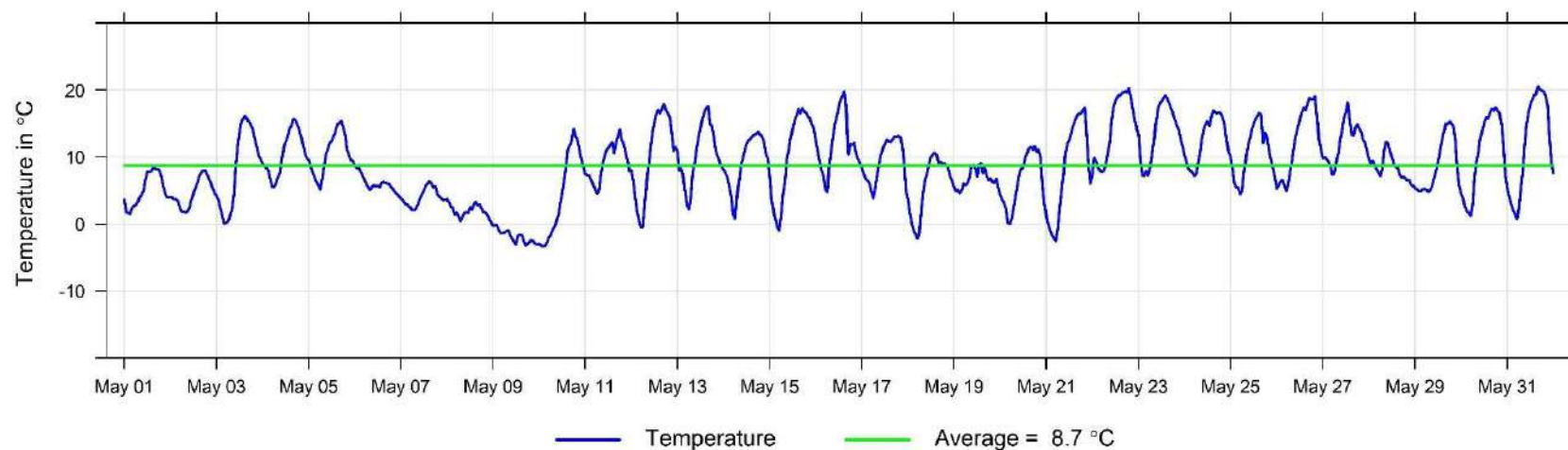
May 2022 Hourly Concentration Readings of TRS (in ppb) at Dunes



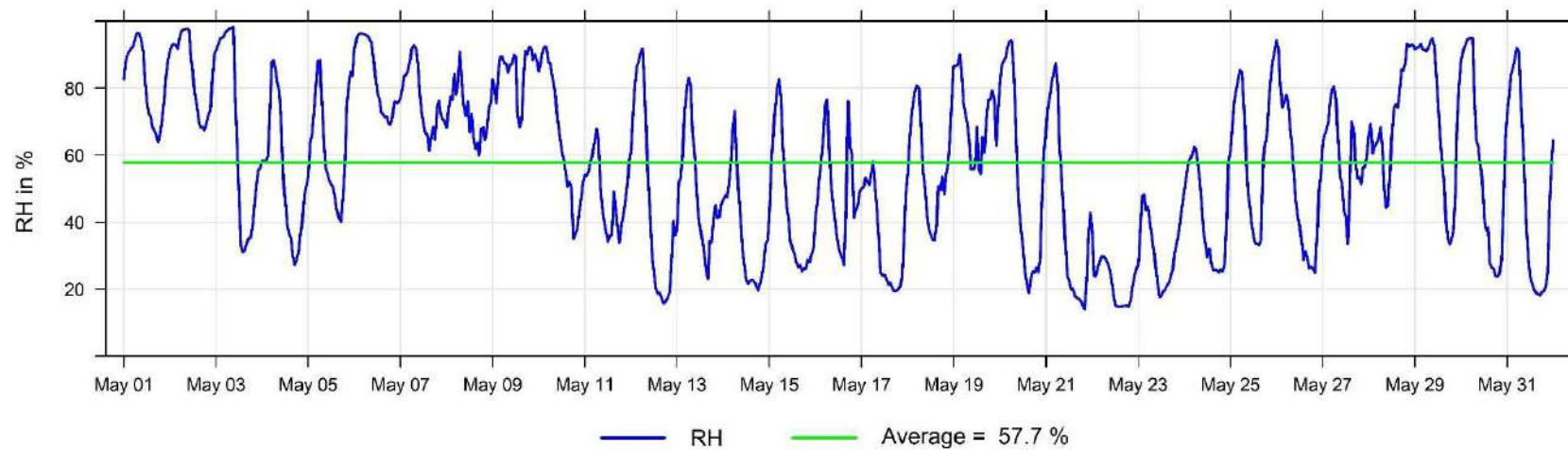
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes



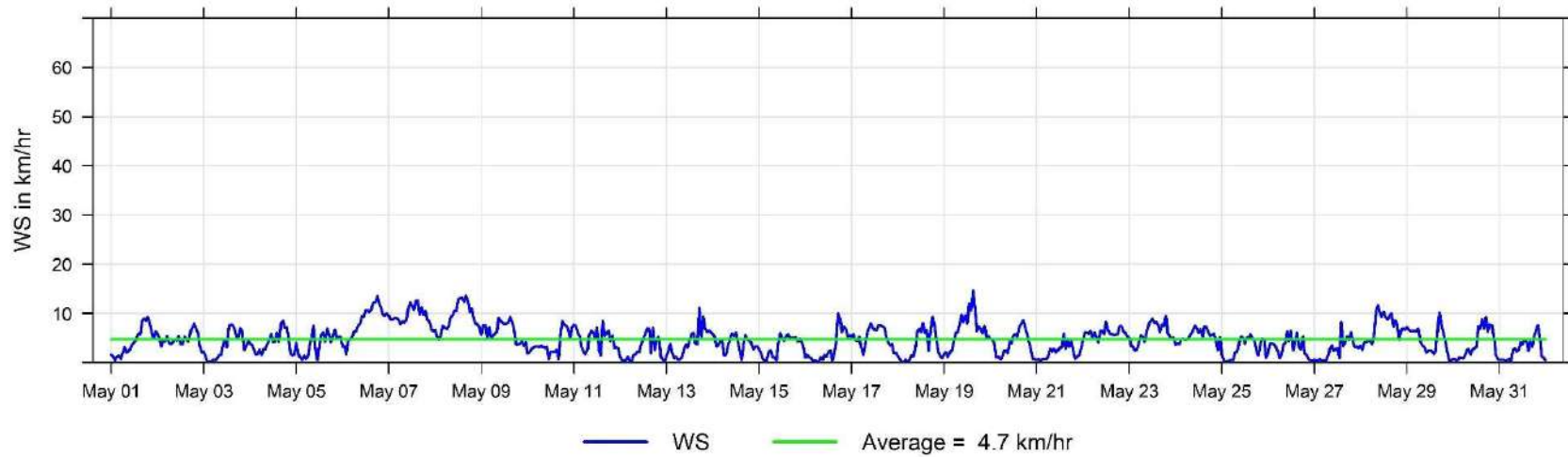
May 2022 Hourly Temperature Readings (in °C) at Dunes



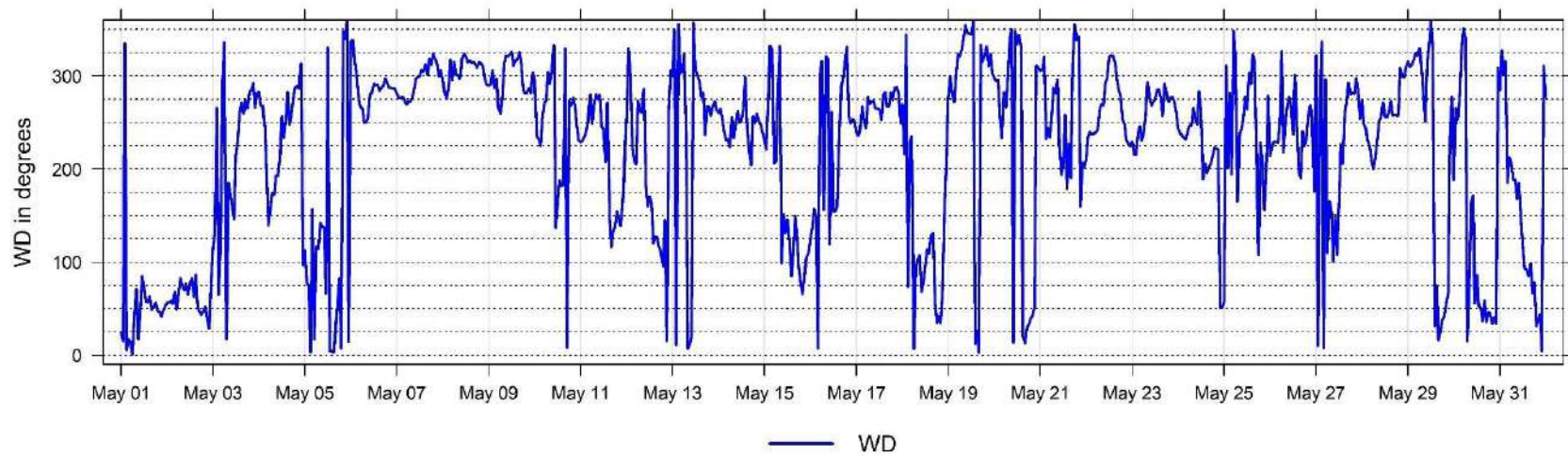
May 2022 Hourly Readings of Relative Humidity (in %) at Dunes



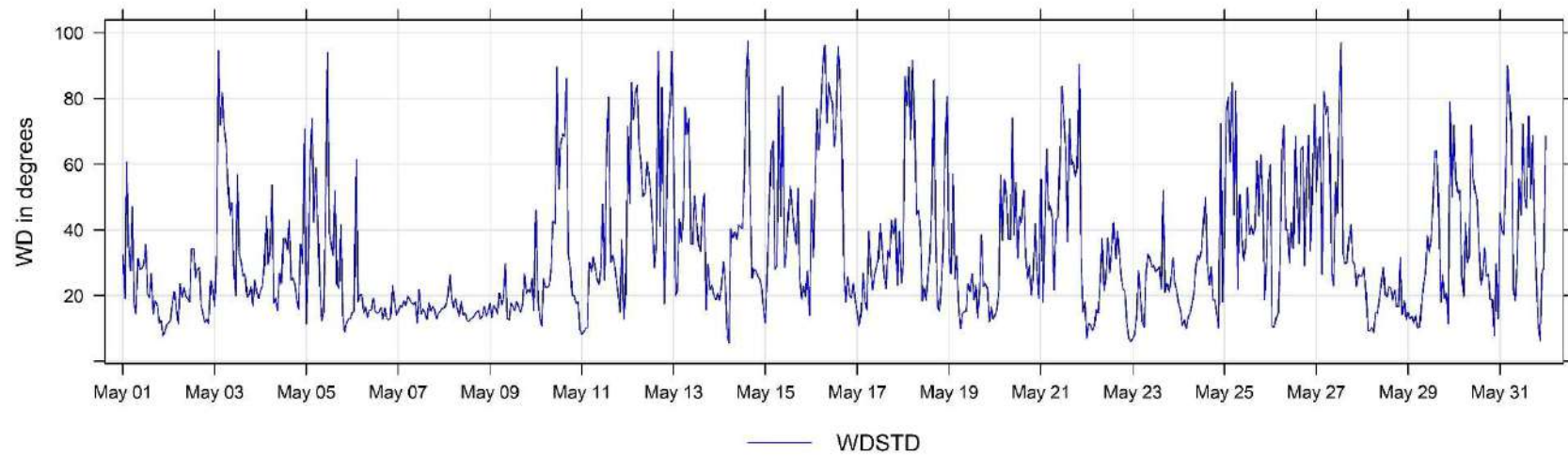
May 2022 Hourly Readings of Wind Speed (in km/hr) at Dunes

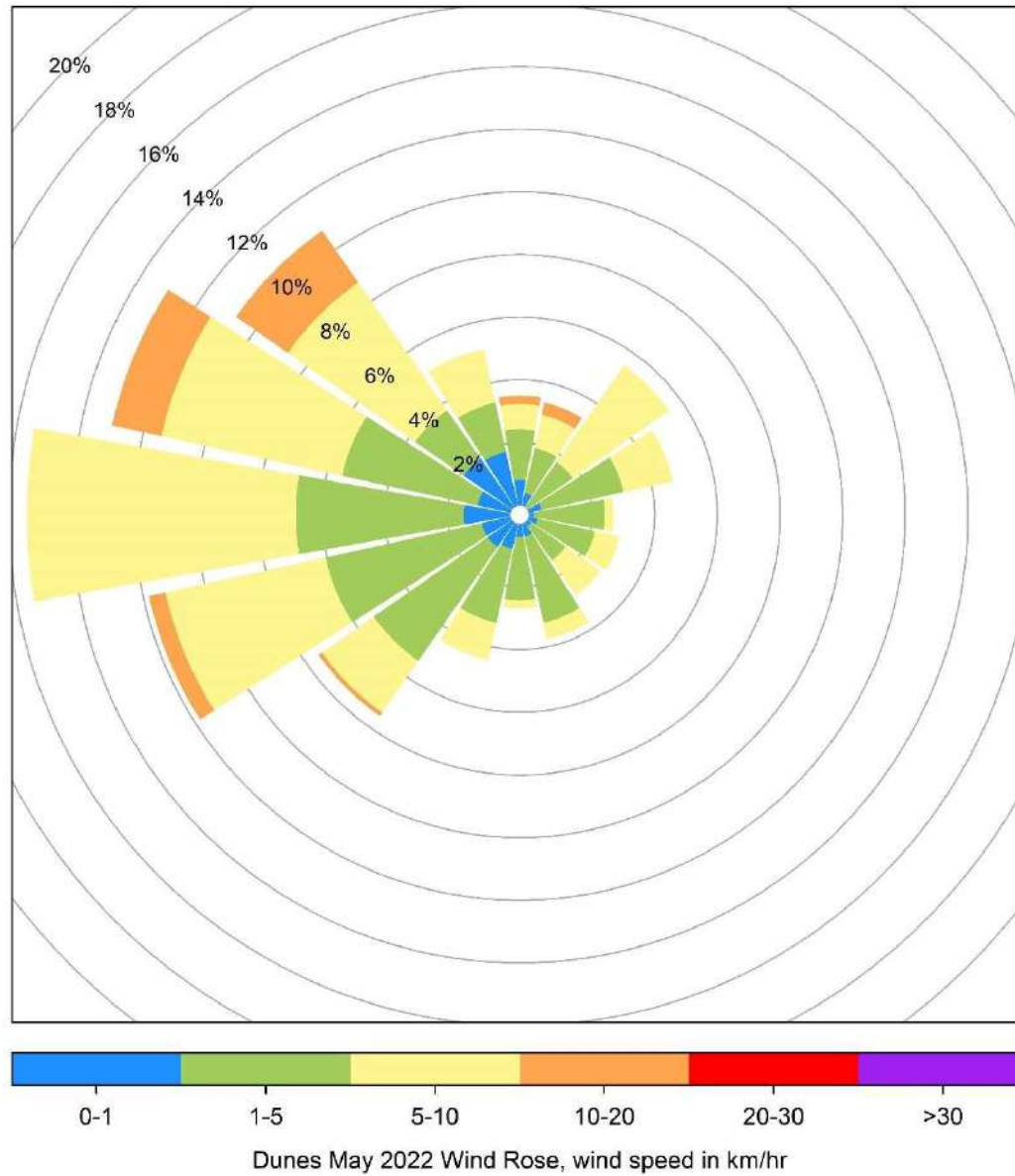


May 2022 Hourly Readings of Wind Direction (in degrees) at Dunes



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes

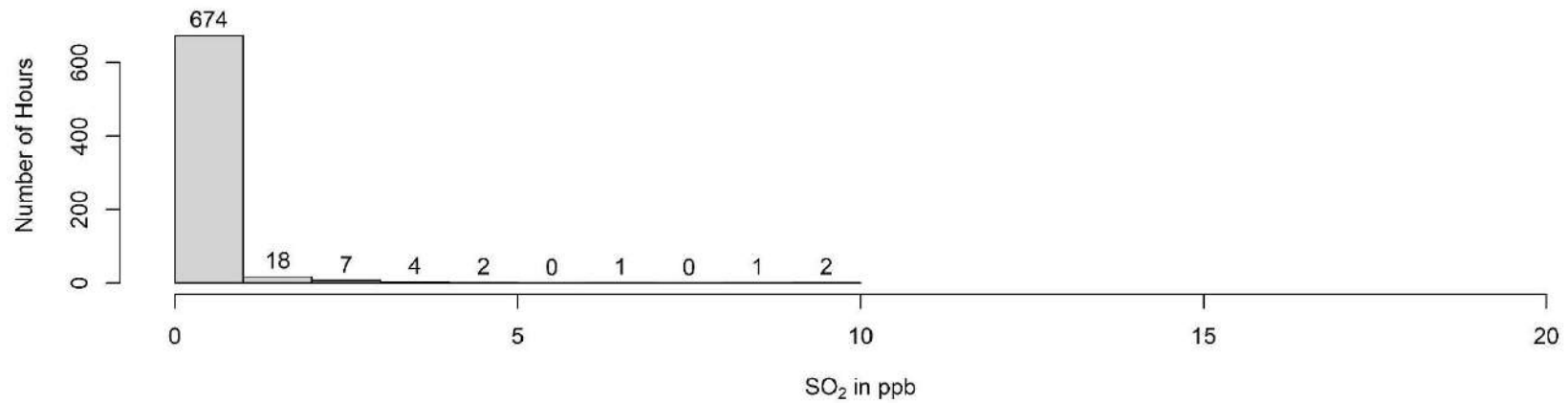
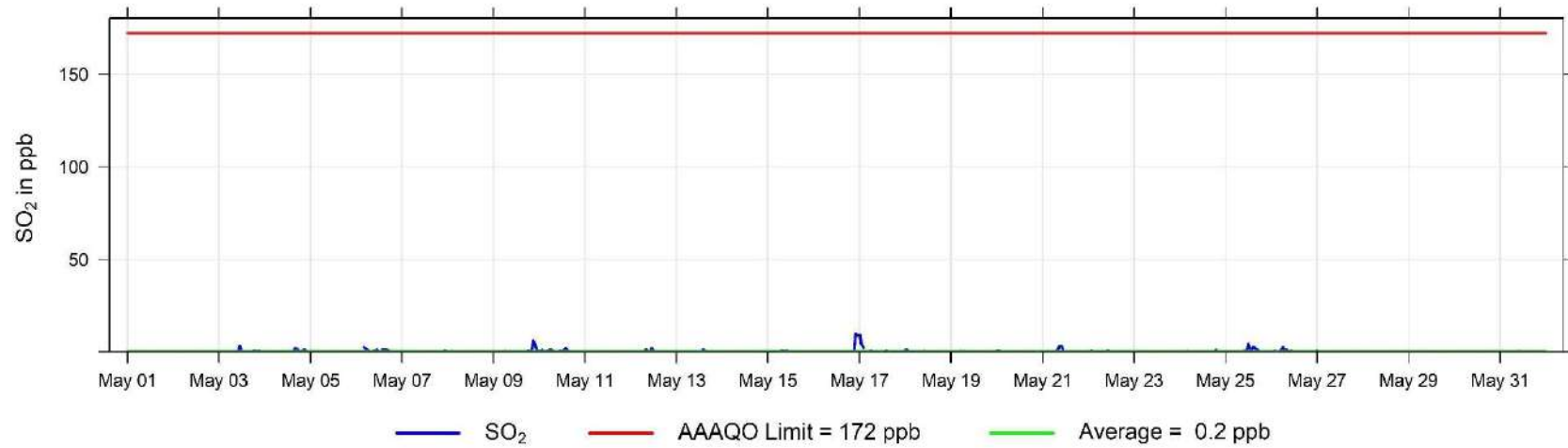




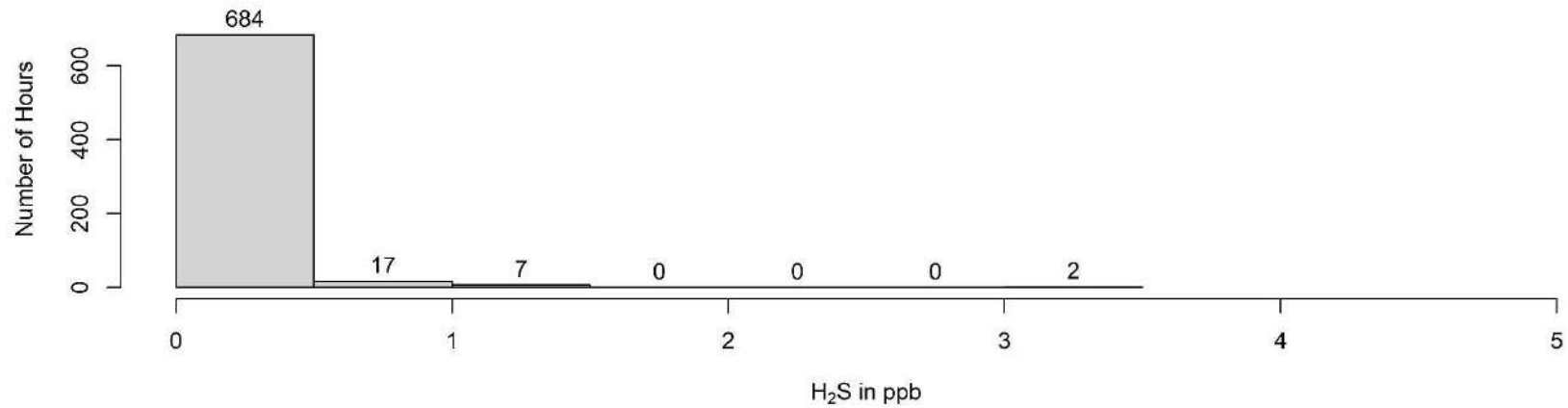
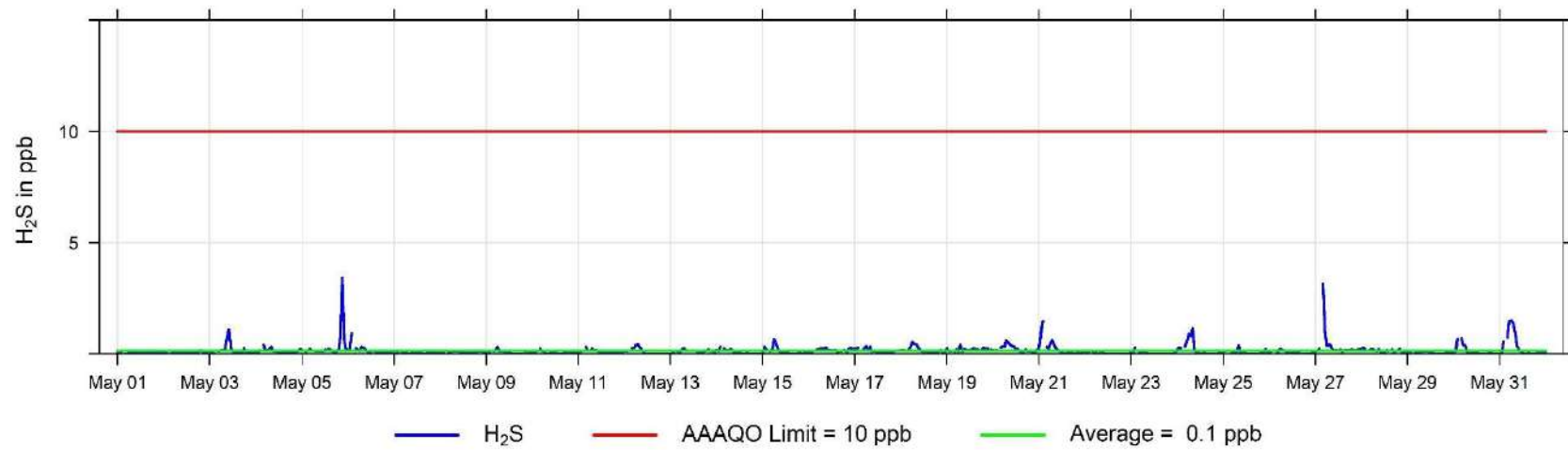
4 Grande Prairie - Henry Pirker Charts

The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie

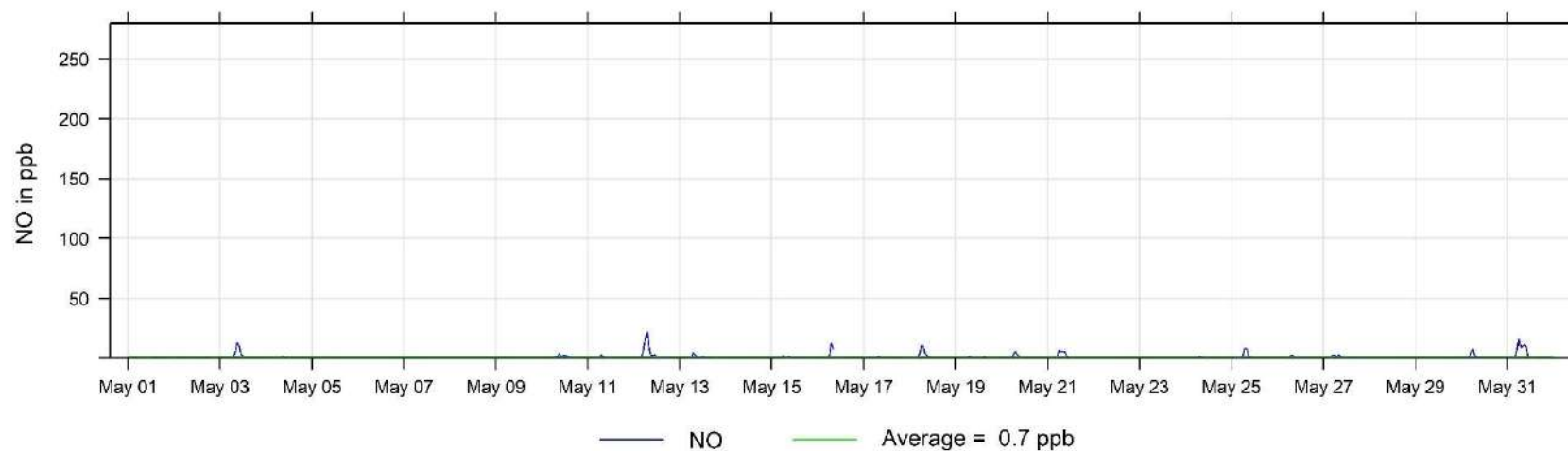
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



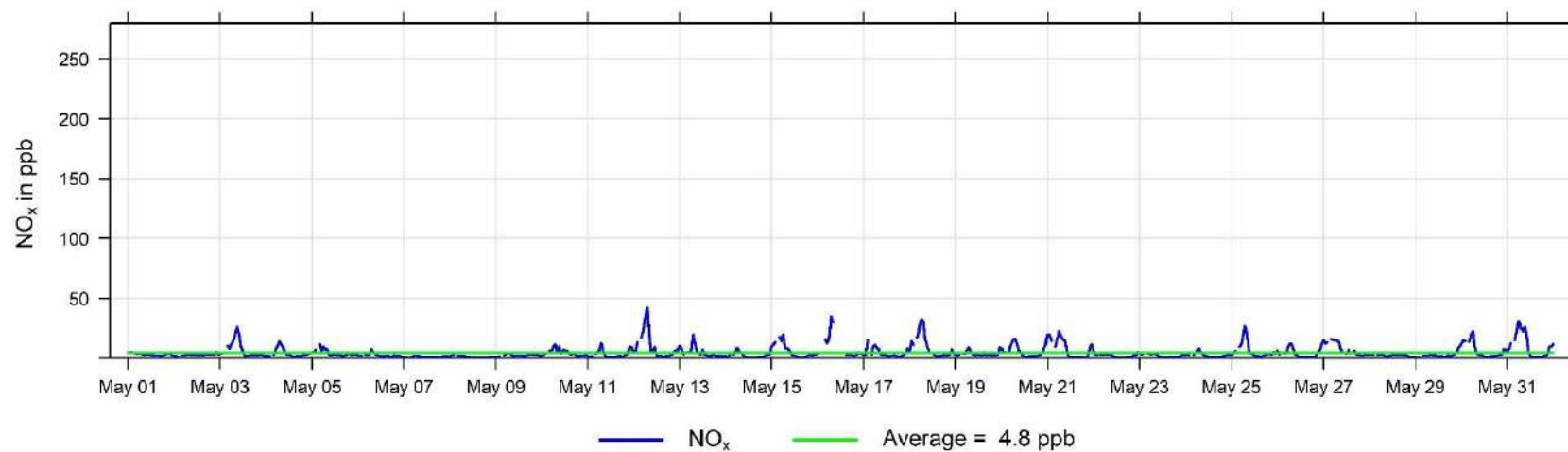
May 2022 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



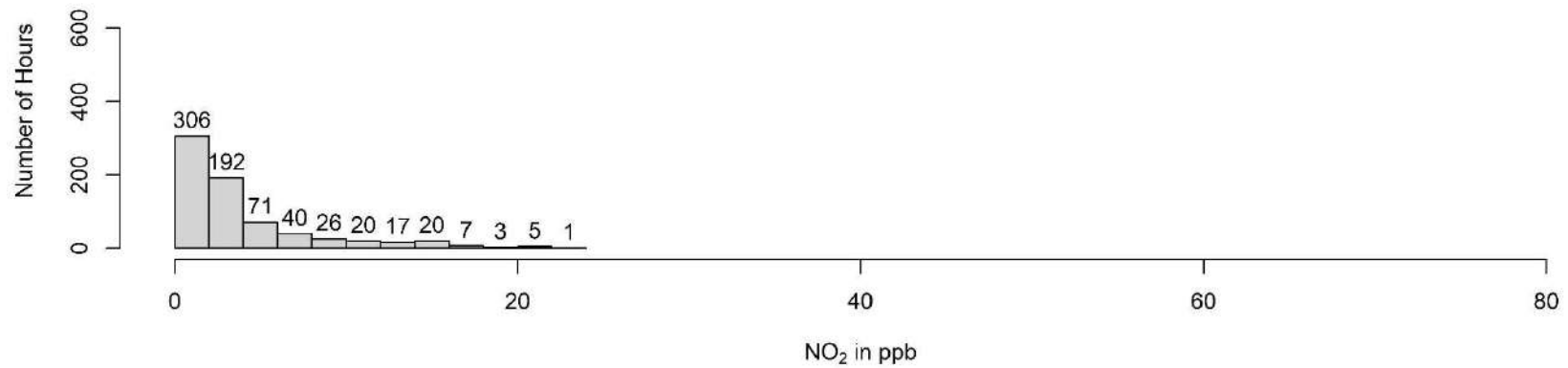
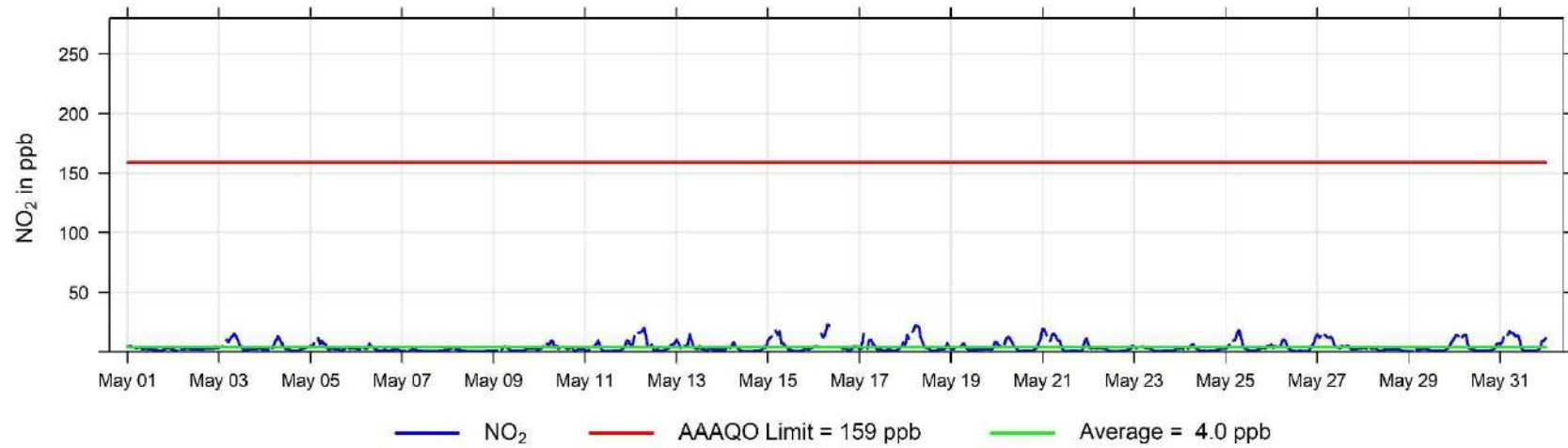
May 2022 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



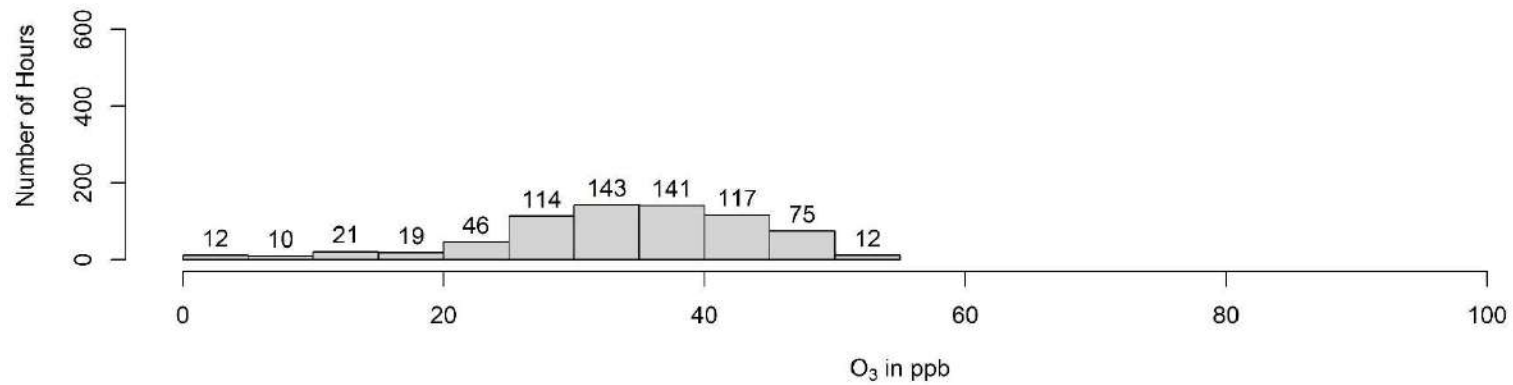
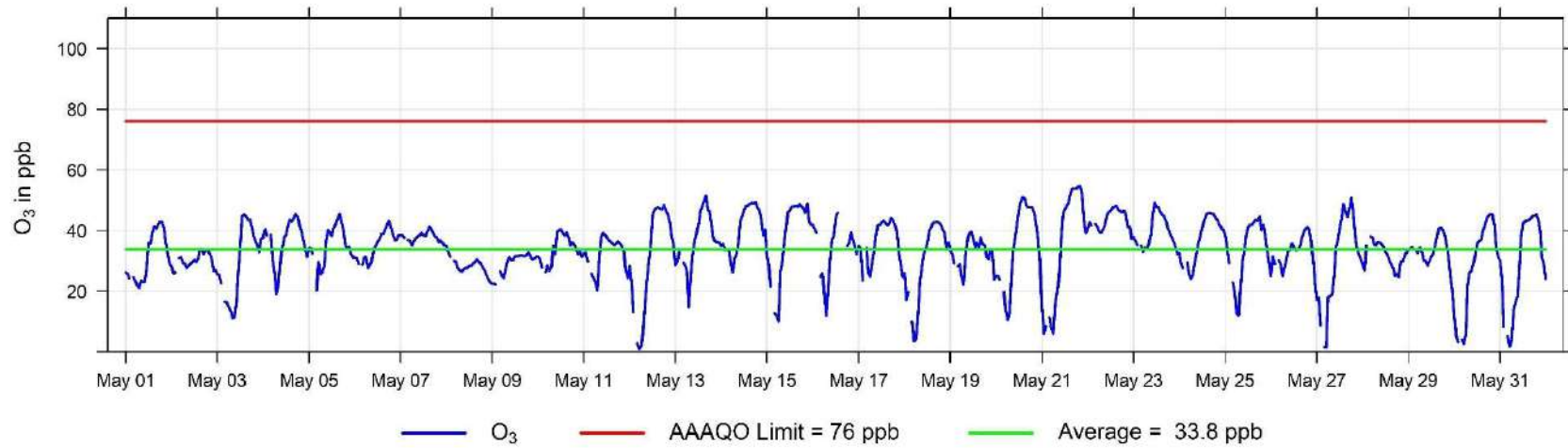
May 2022 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



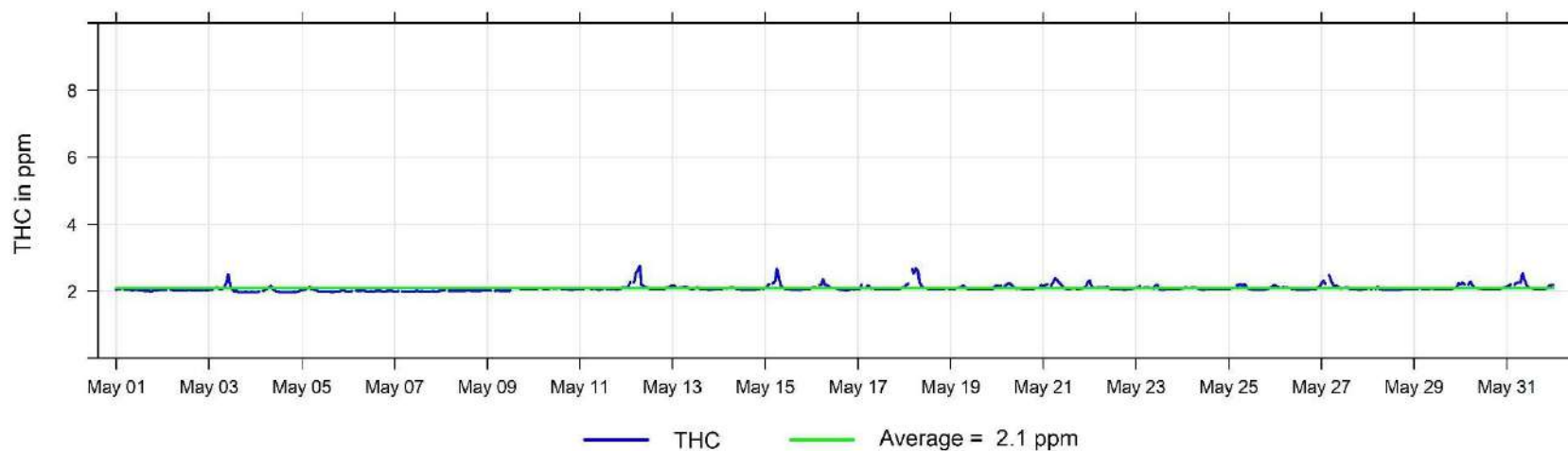
May 2022 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



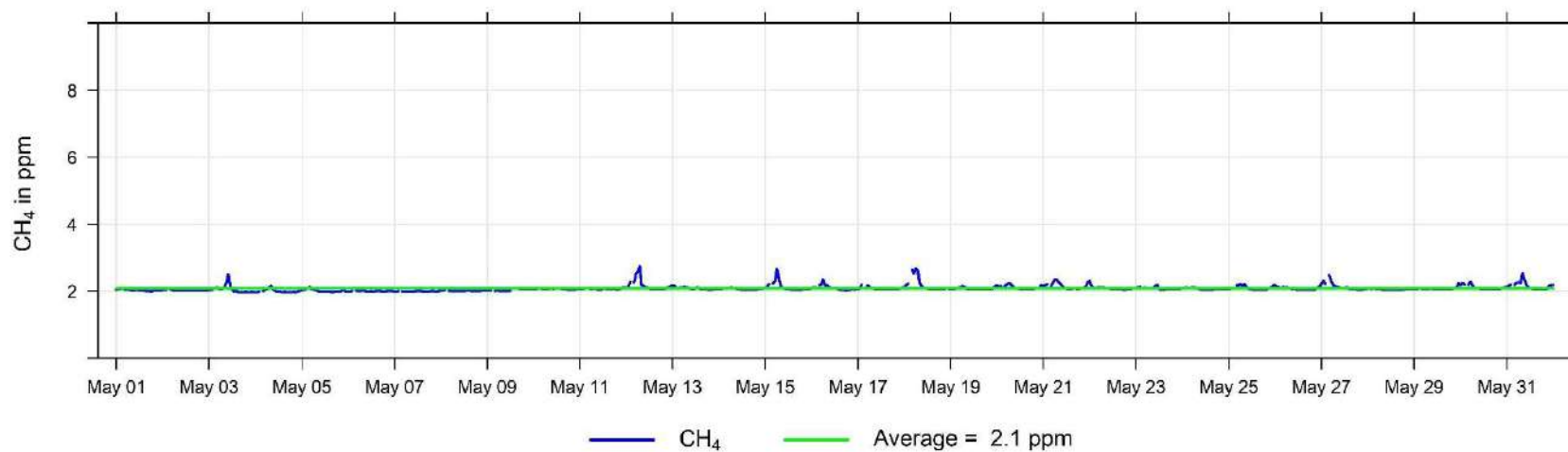
May 2022 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



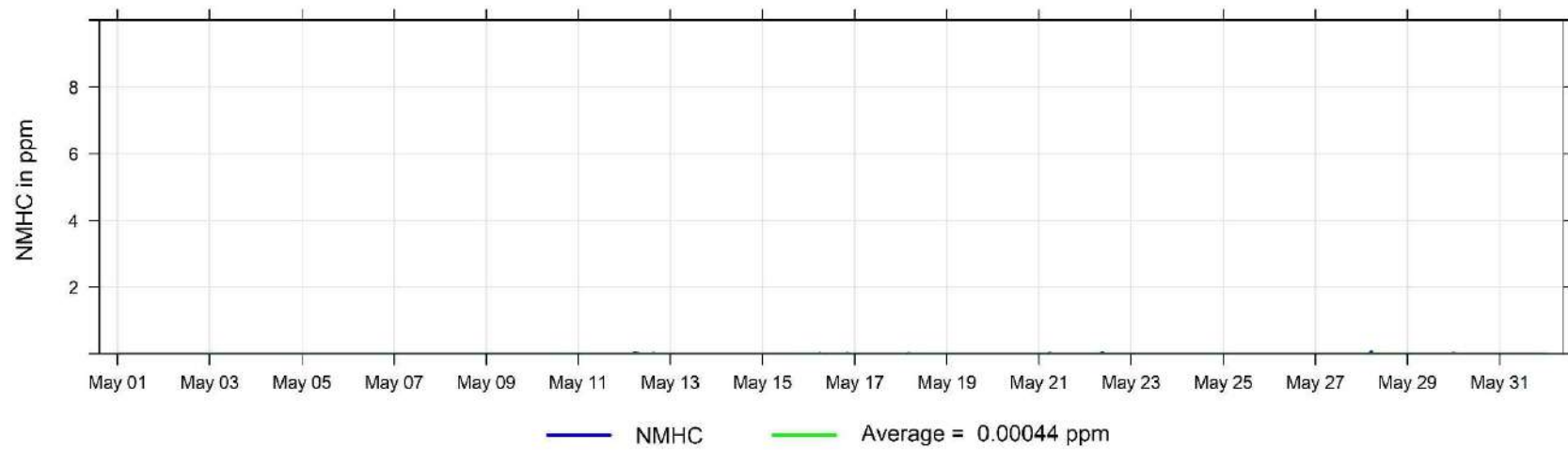
May 2022 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



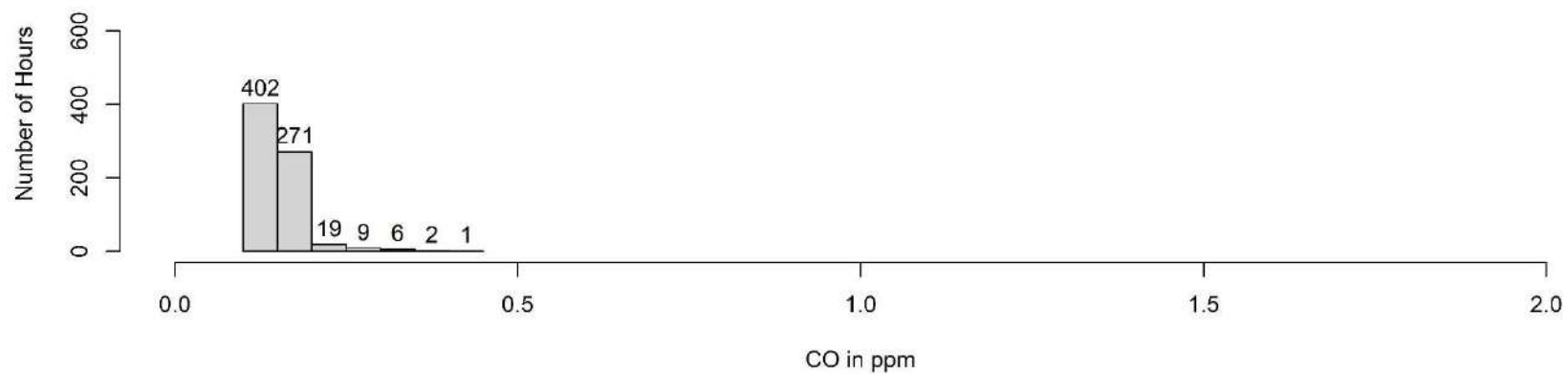
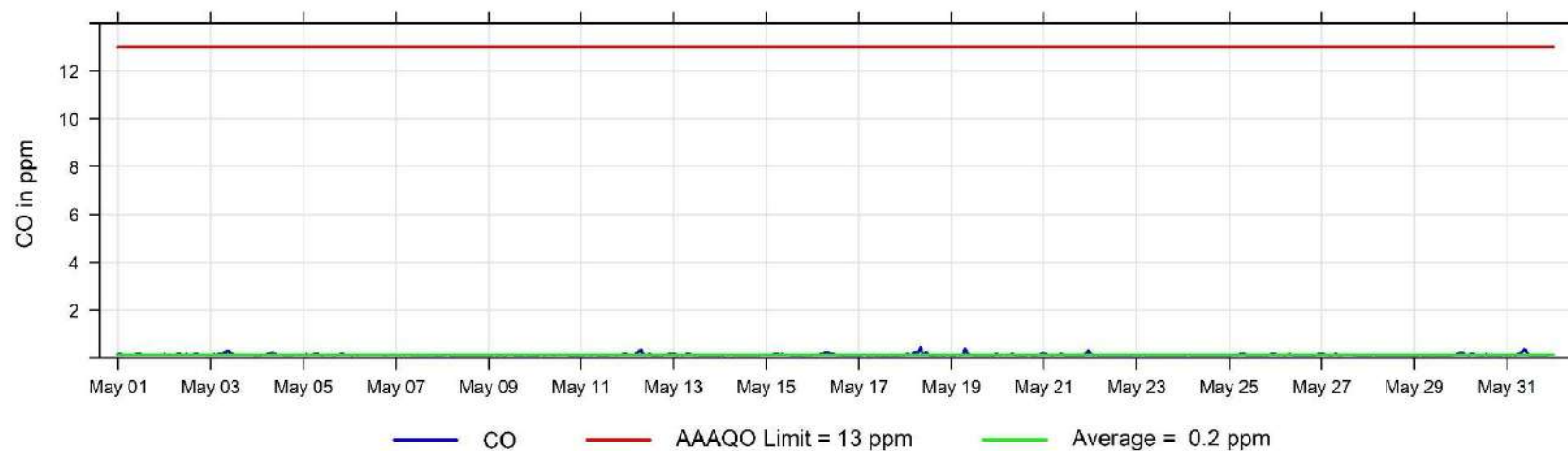
May 2022 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker



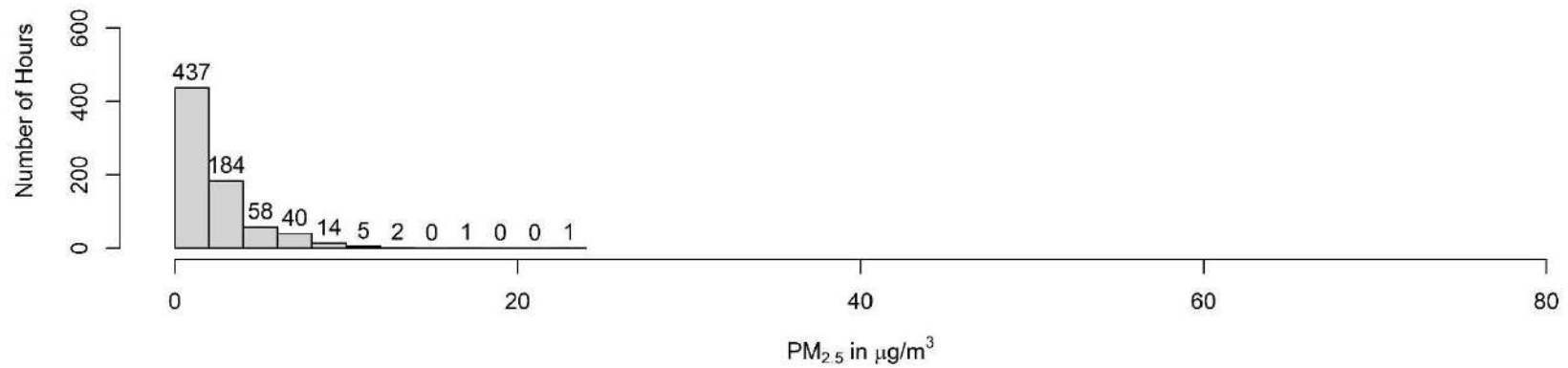
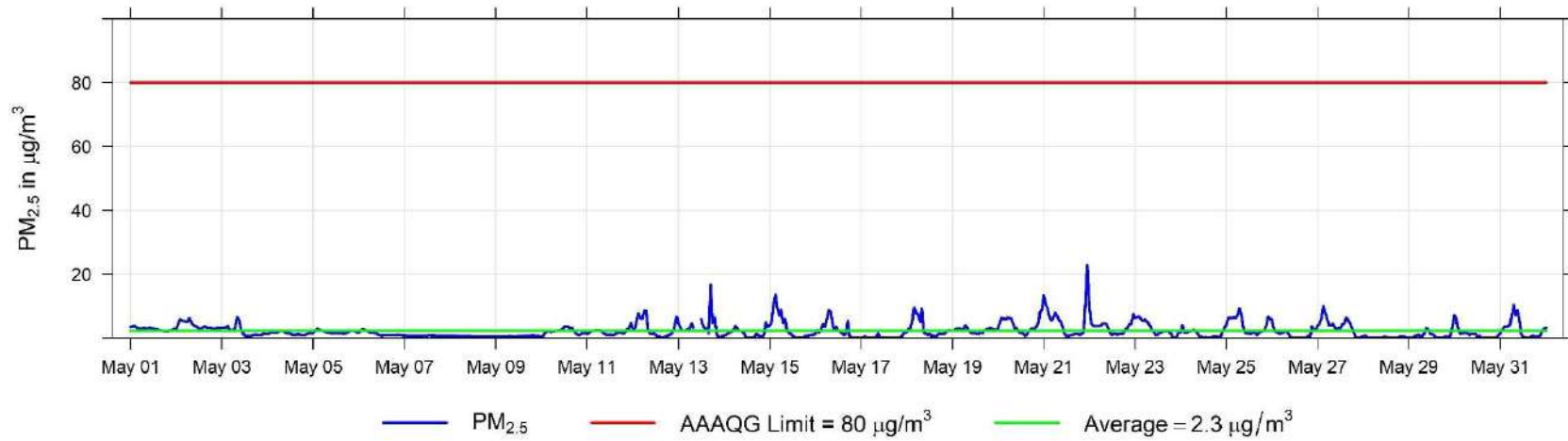
May 2022 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker



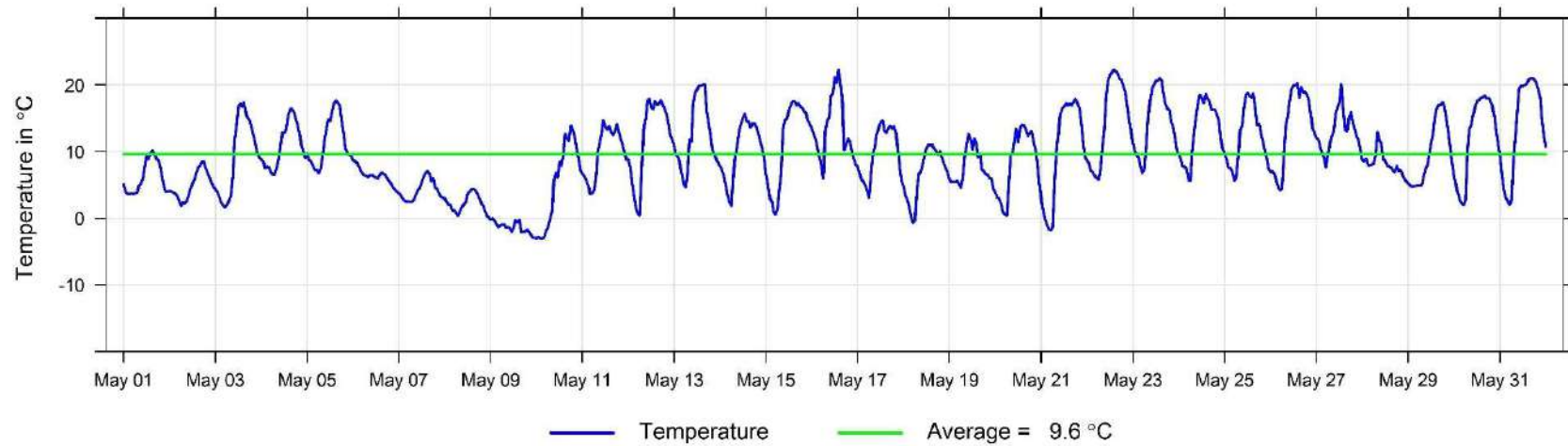
May 2022 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



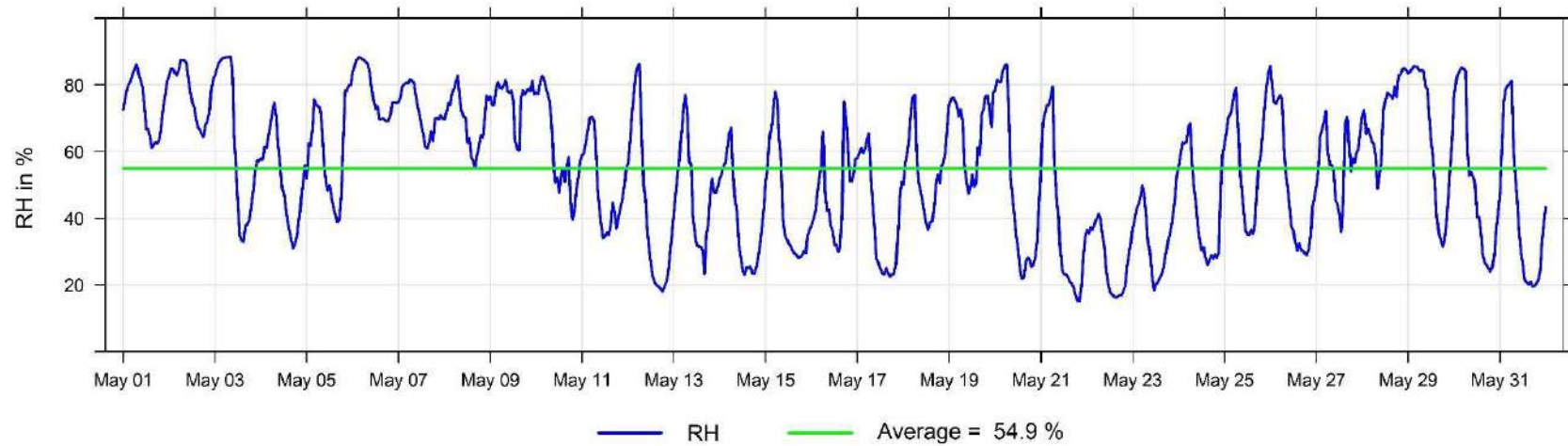
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



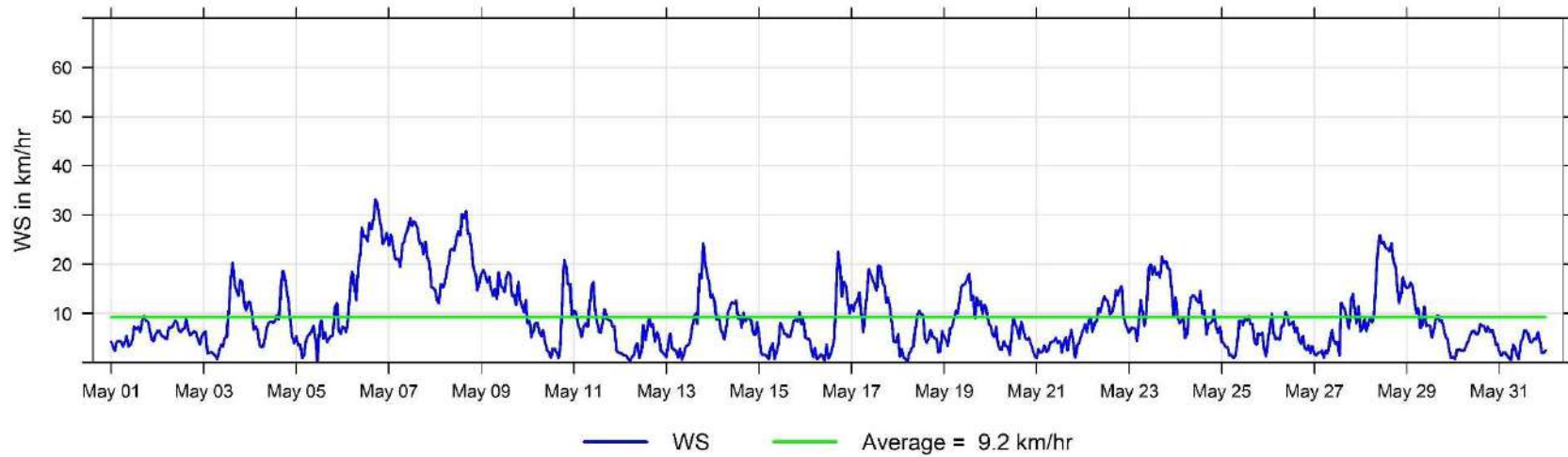
May 2022 Hourly Temperature Readings (in °C) at Henry Pirker



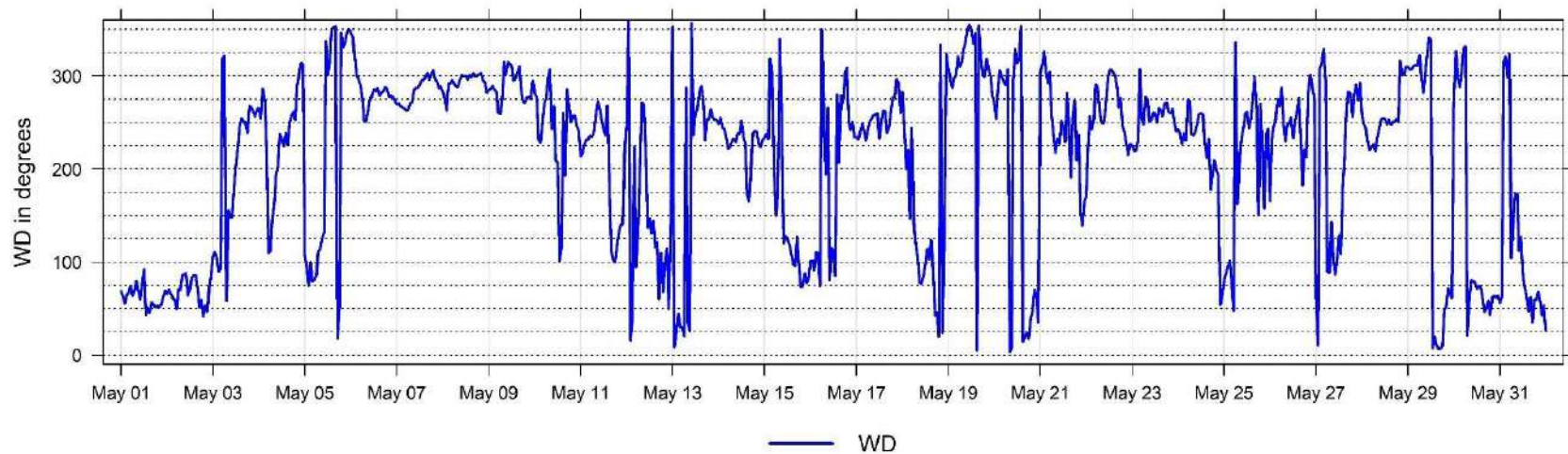
May 2022 Hourly Readings of Relative Humidity (in %) at Henry Pirker



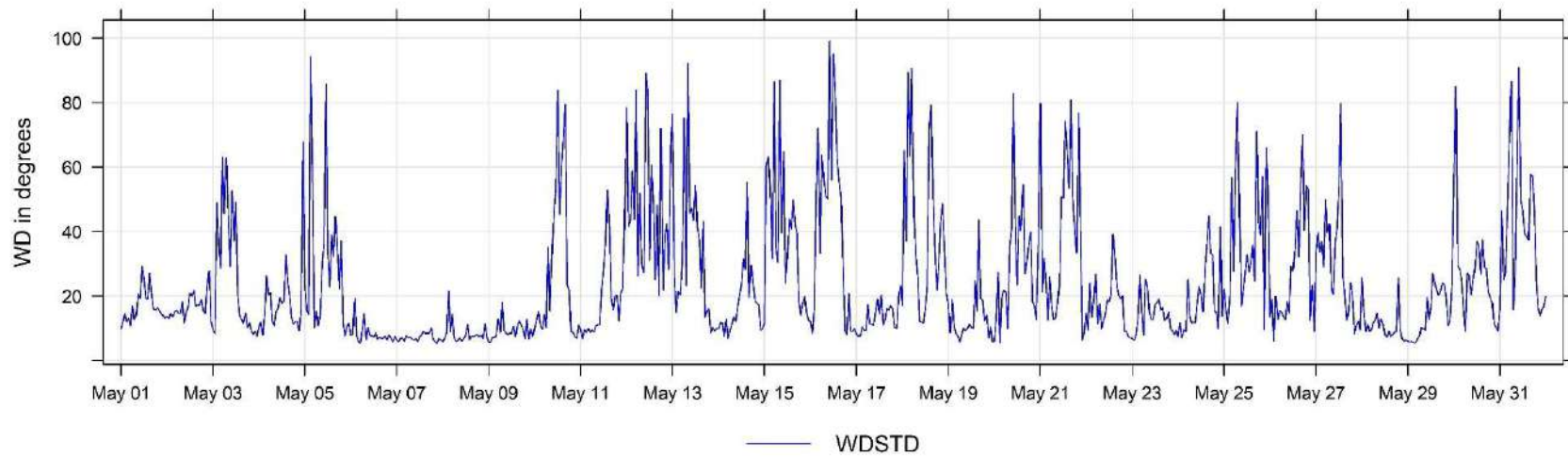
May 2022 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

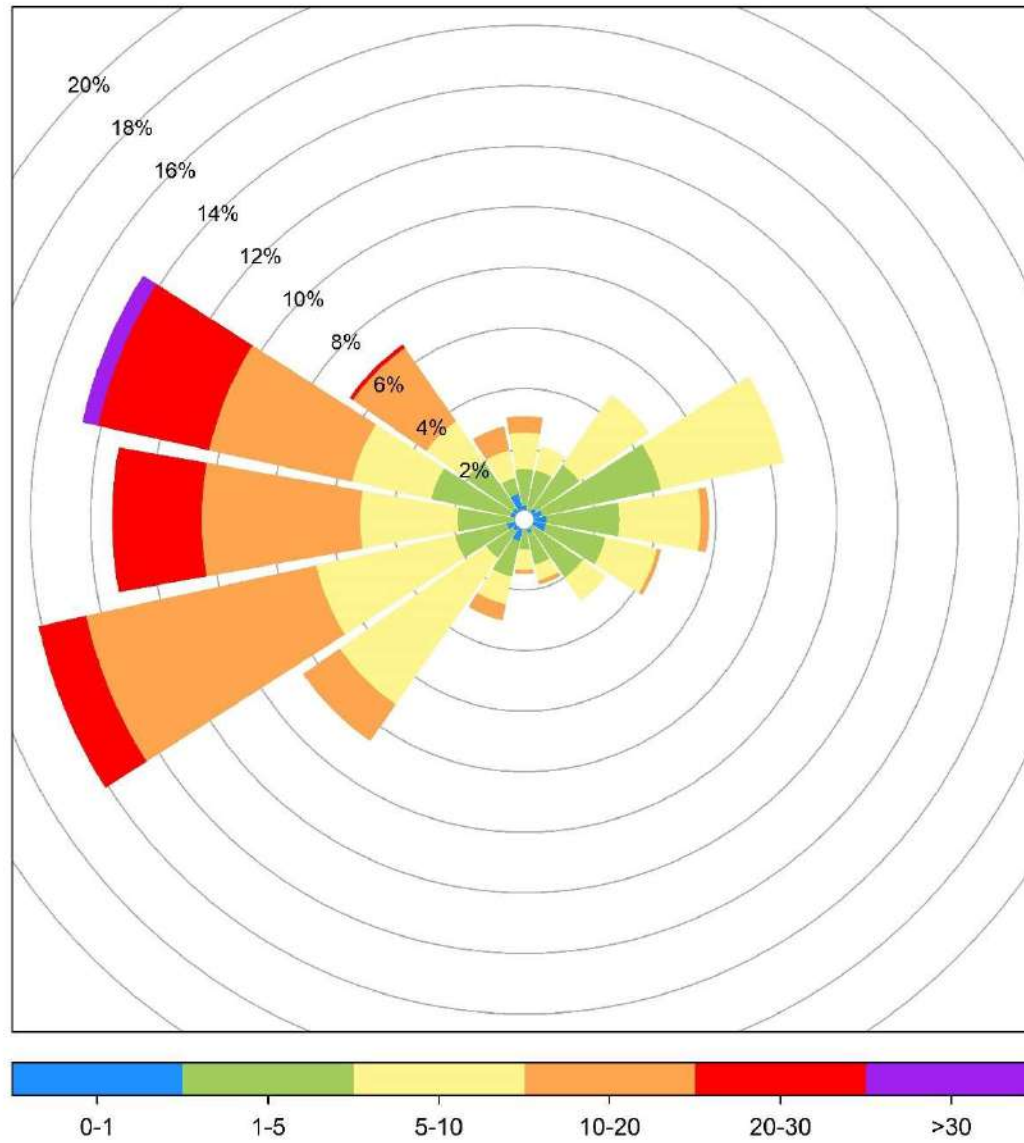


May 2022 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker



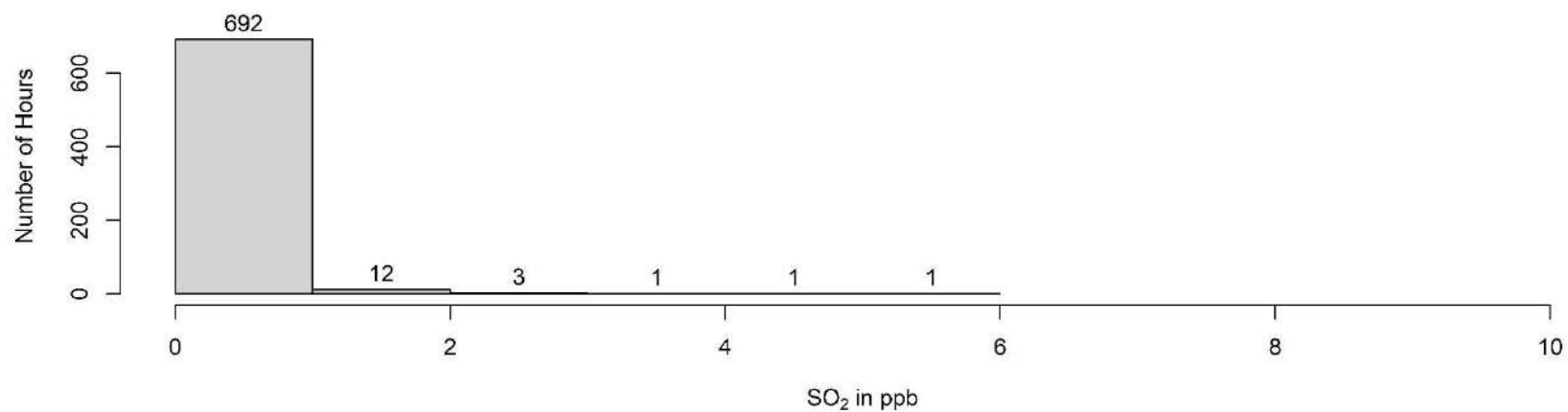
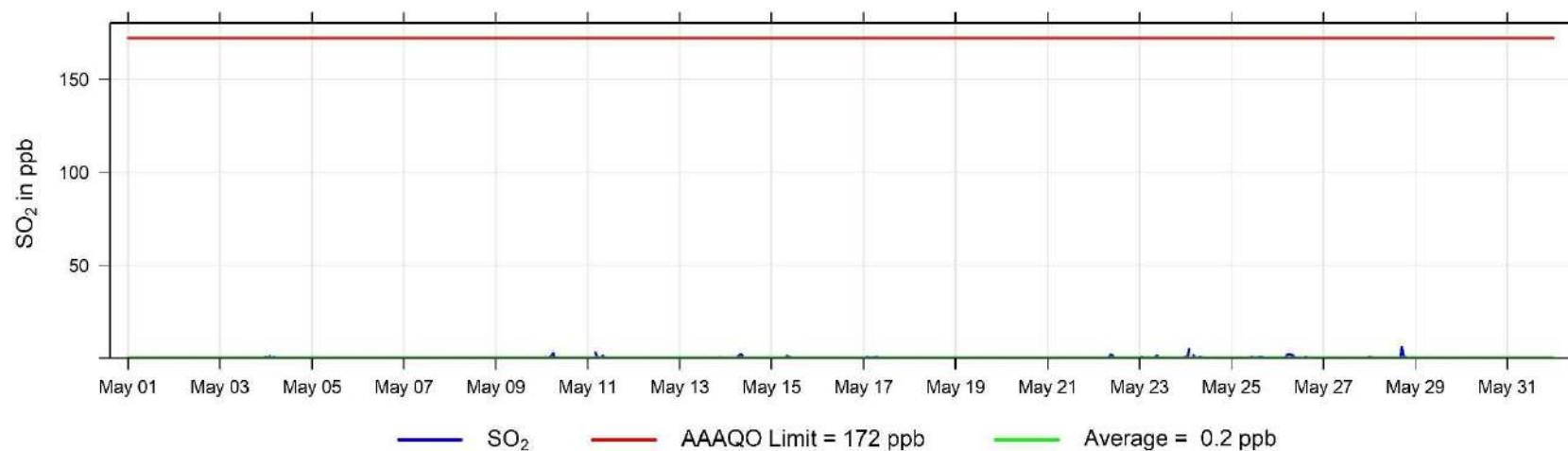


Henry Pirker May 2022 Wind Rose, wind speed in km/hr

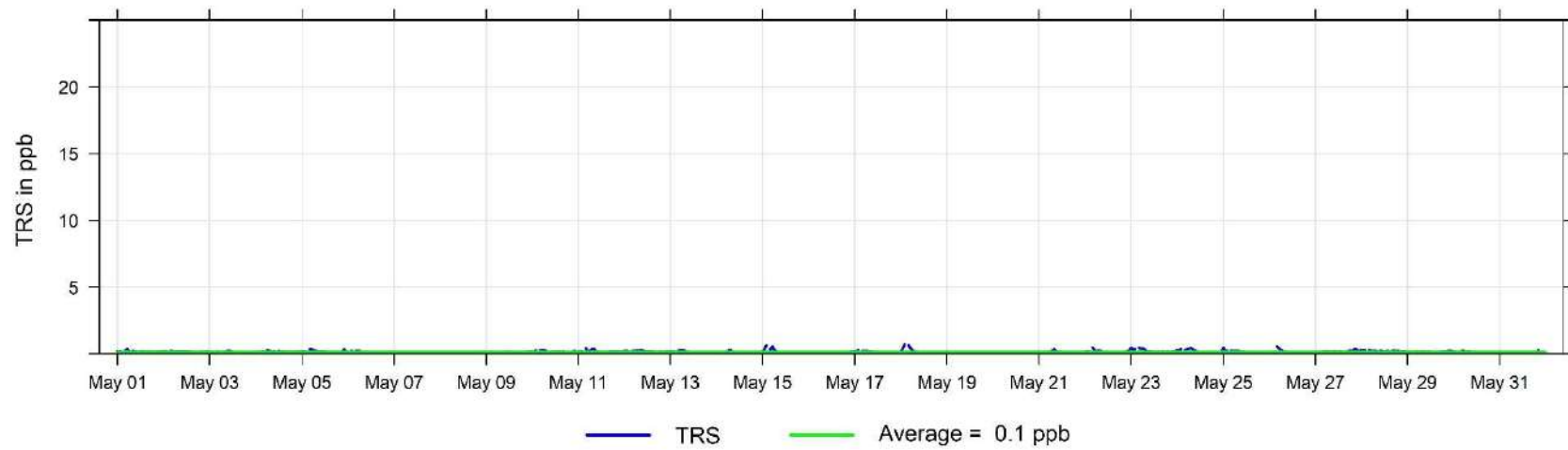
5 Smoky Heights Charts

The following pages include the charts and histograms for Smoky Heights Station

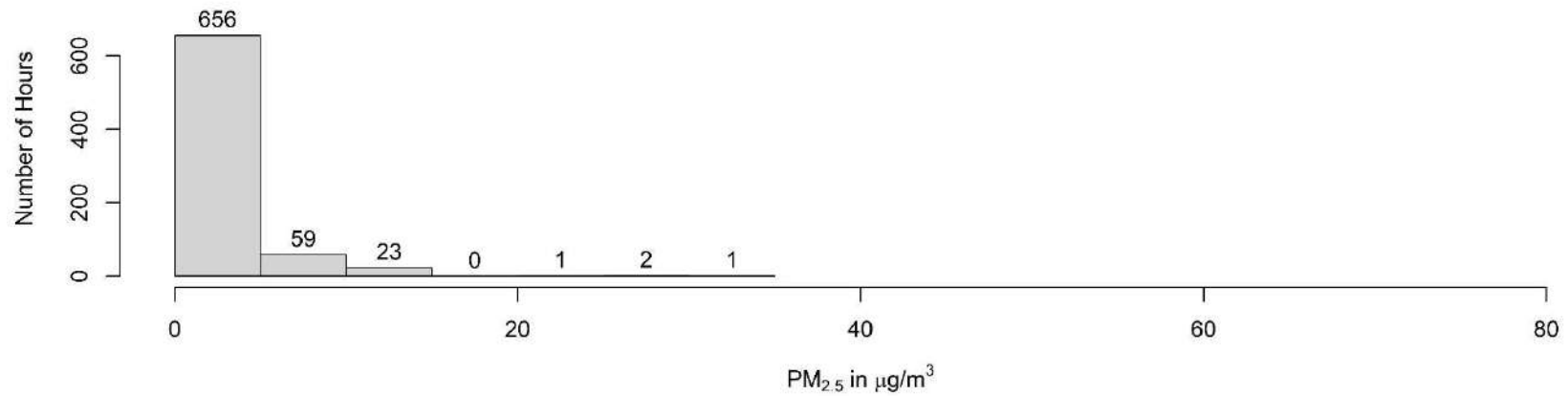
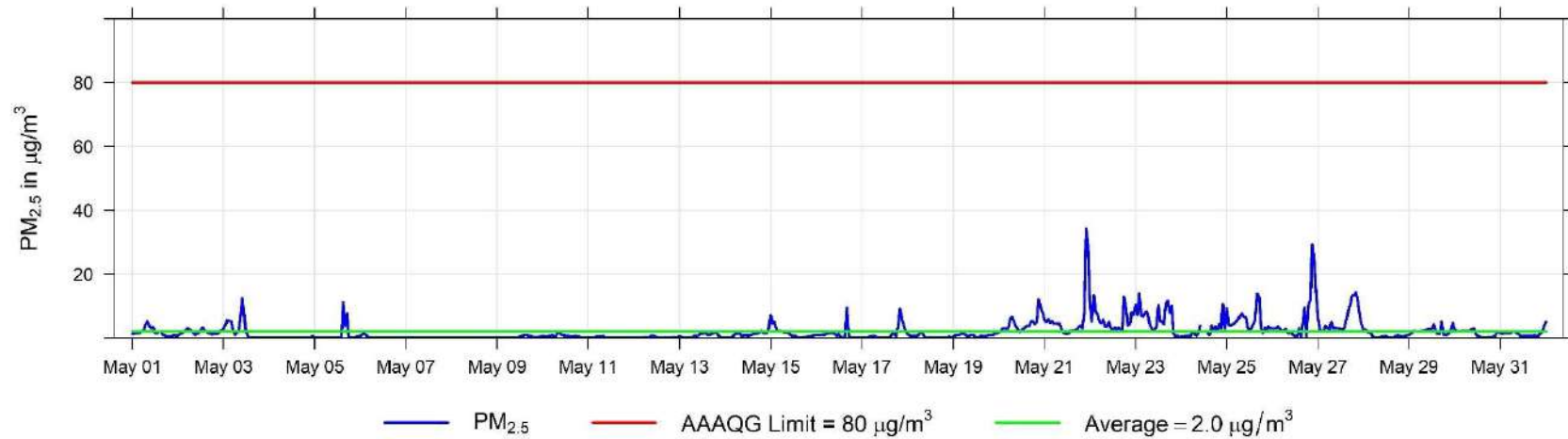
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights



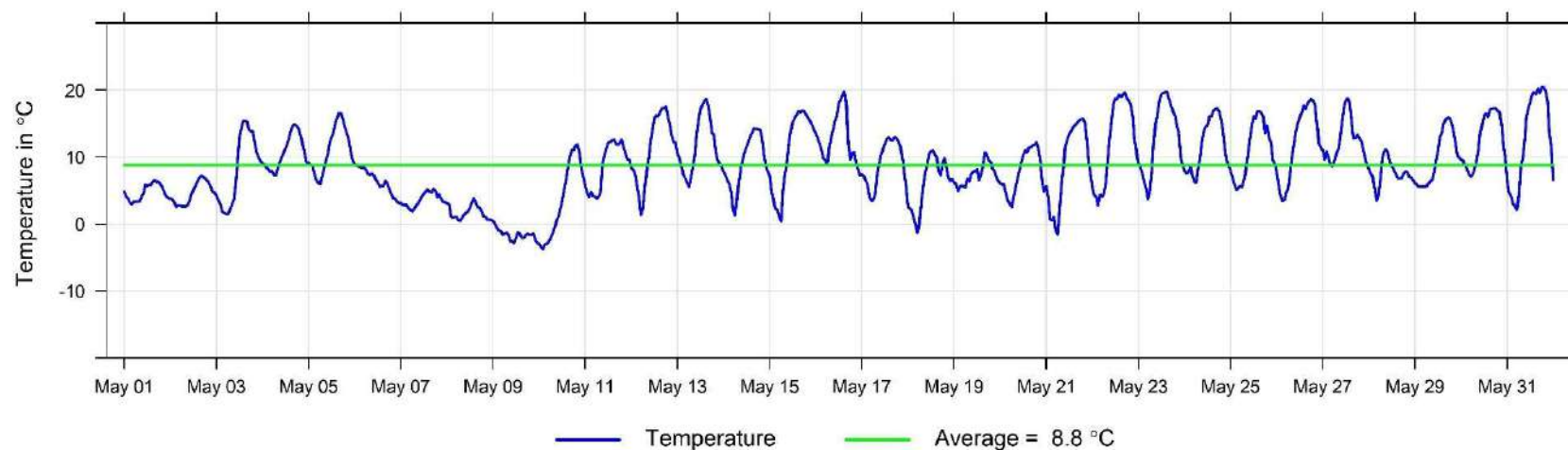
May 2022 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights



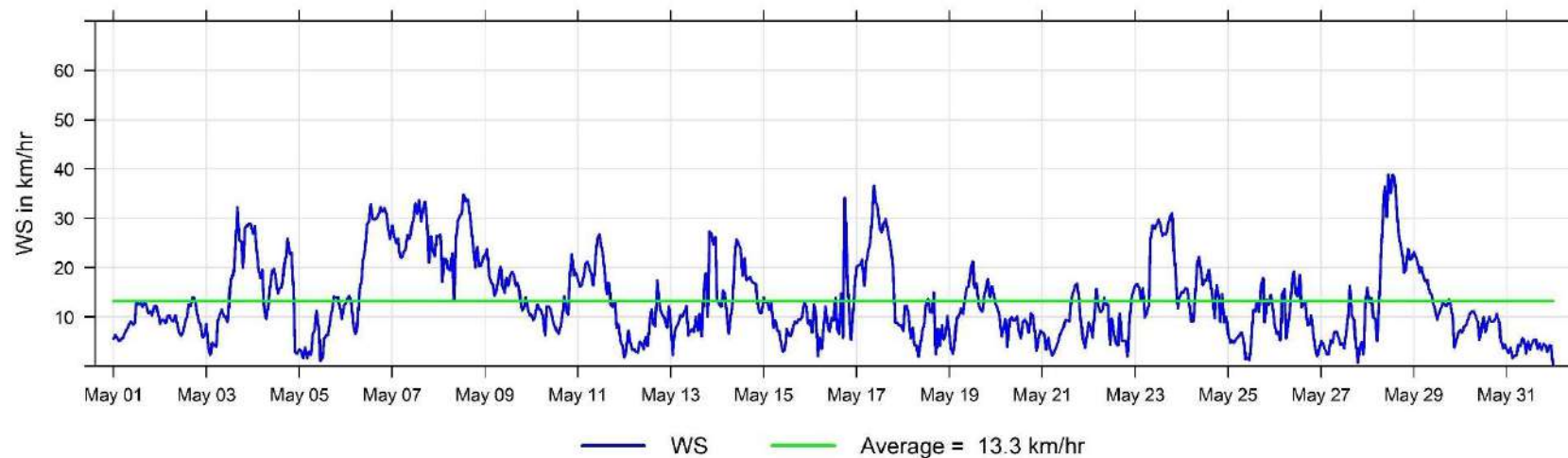
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights



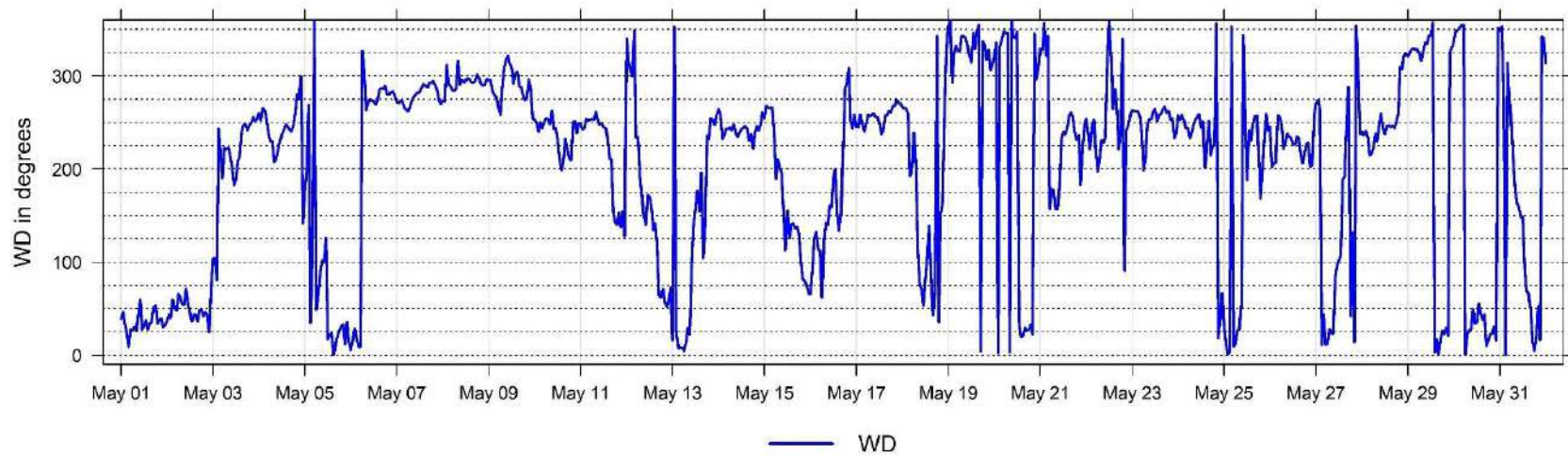
May 2022 Hourly Temperature Readings (in °C) at Smoky Heights



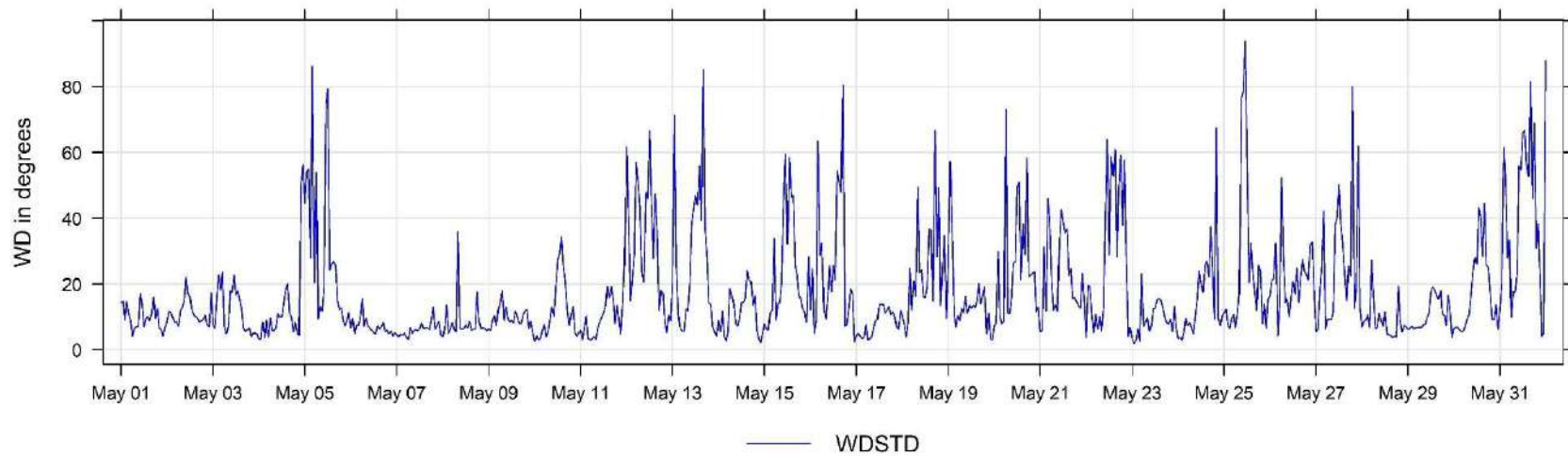
May 2022 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

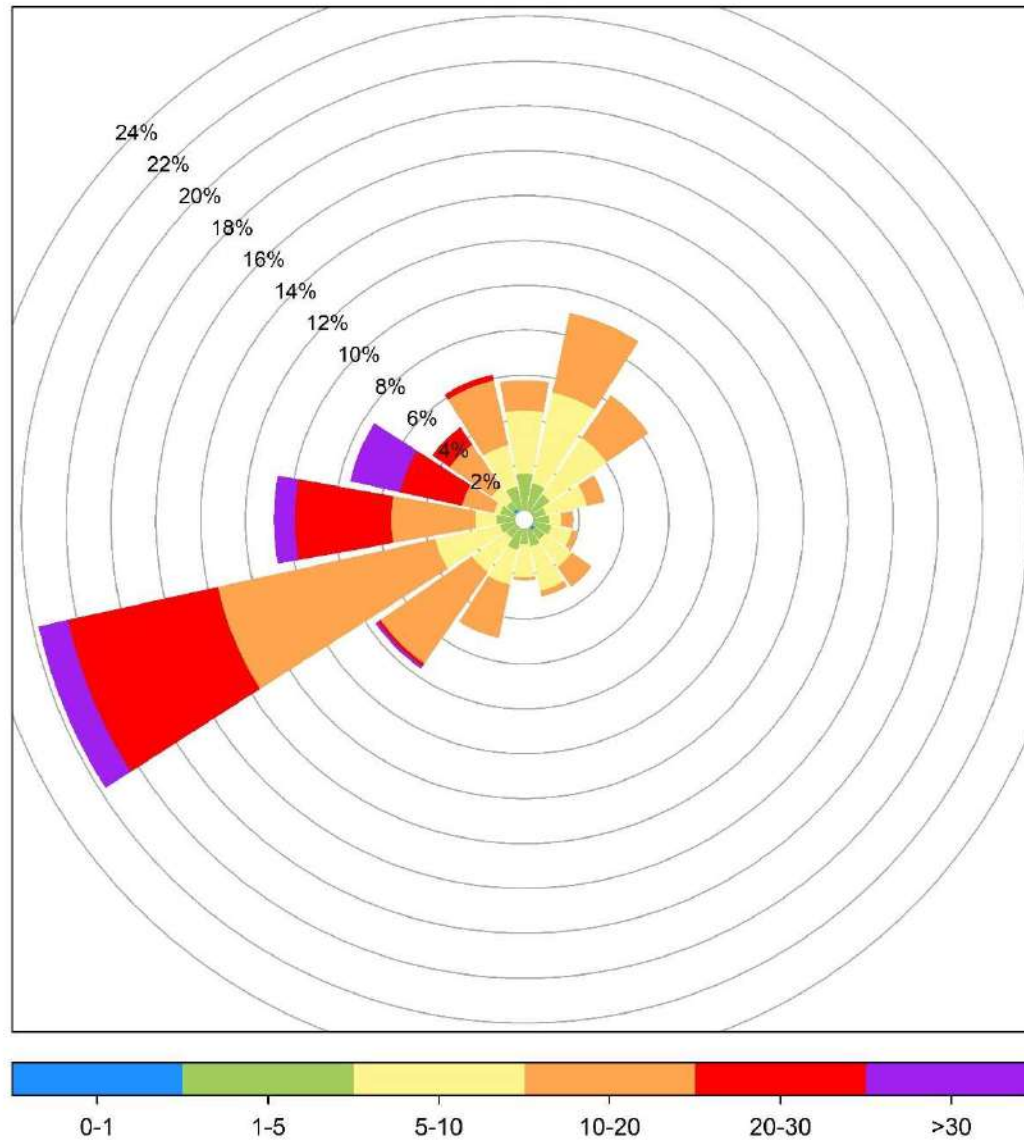


May 2022 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights



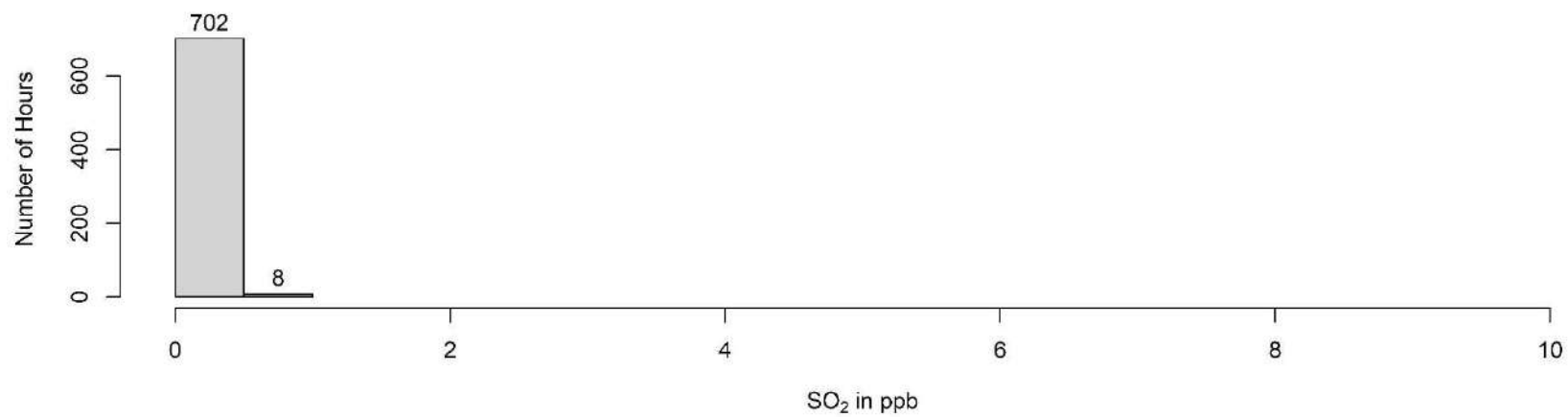
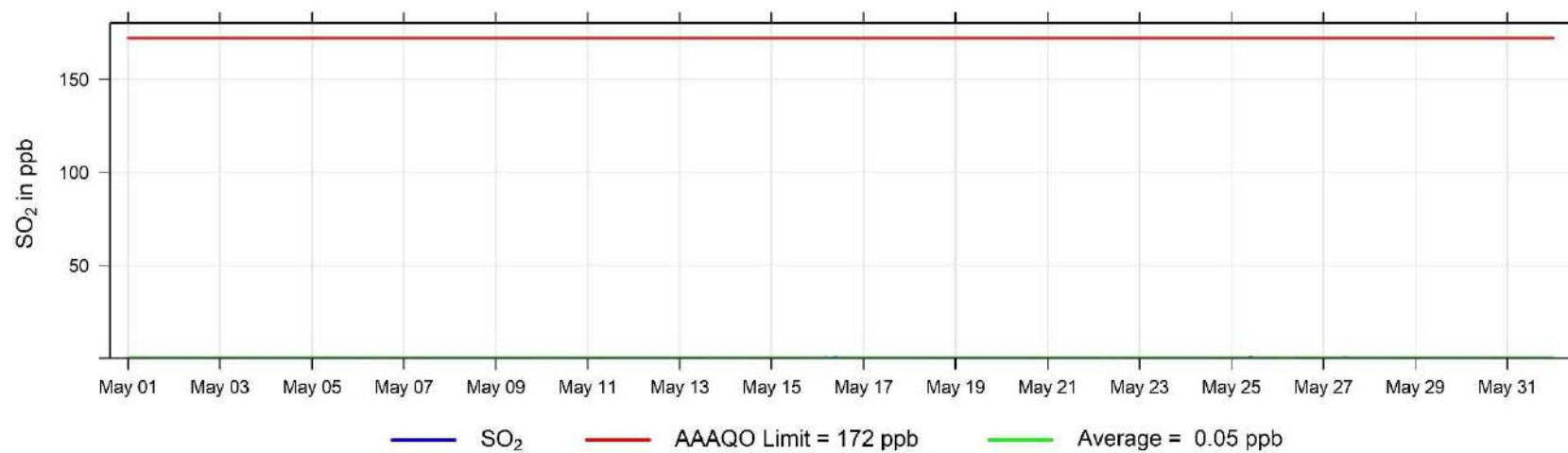


Smoky Heights May 2022 Wind Rose, wind speed in km/hr

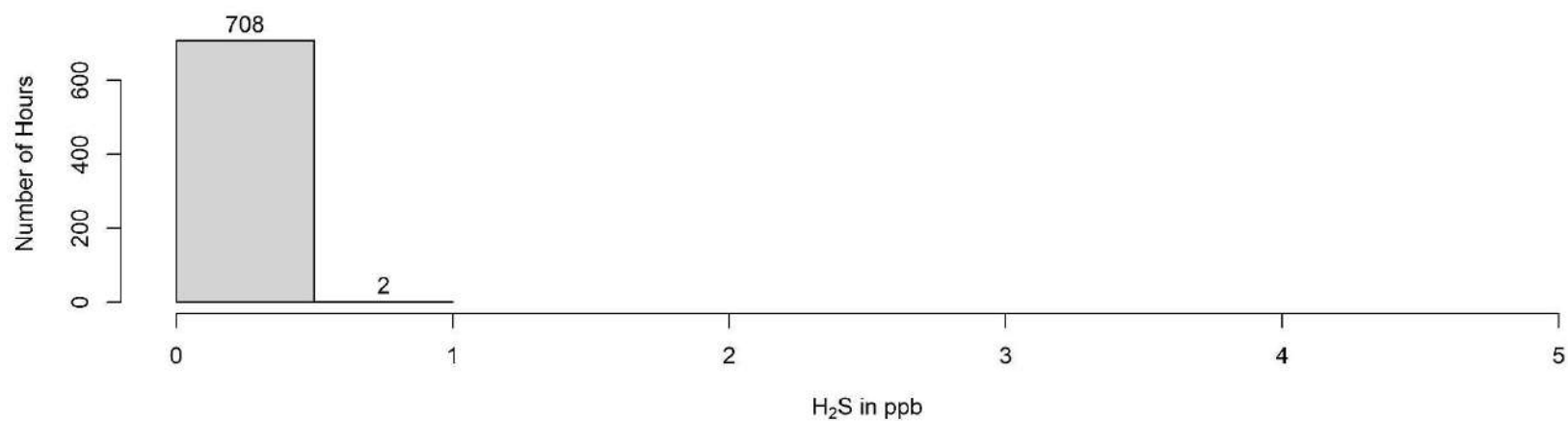
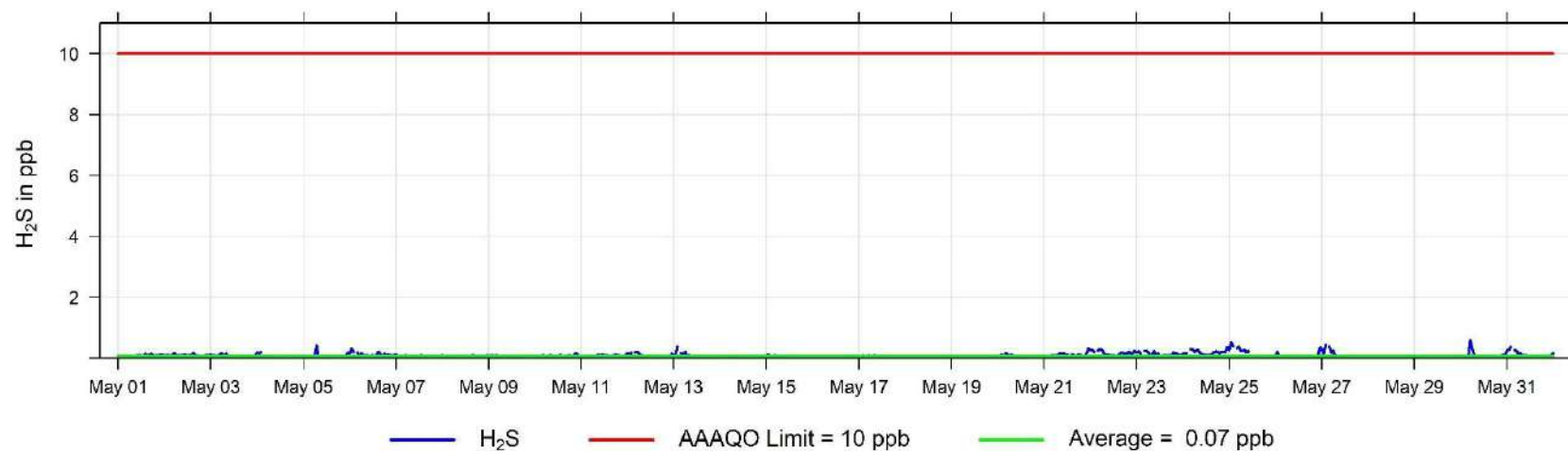
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

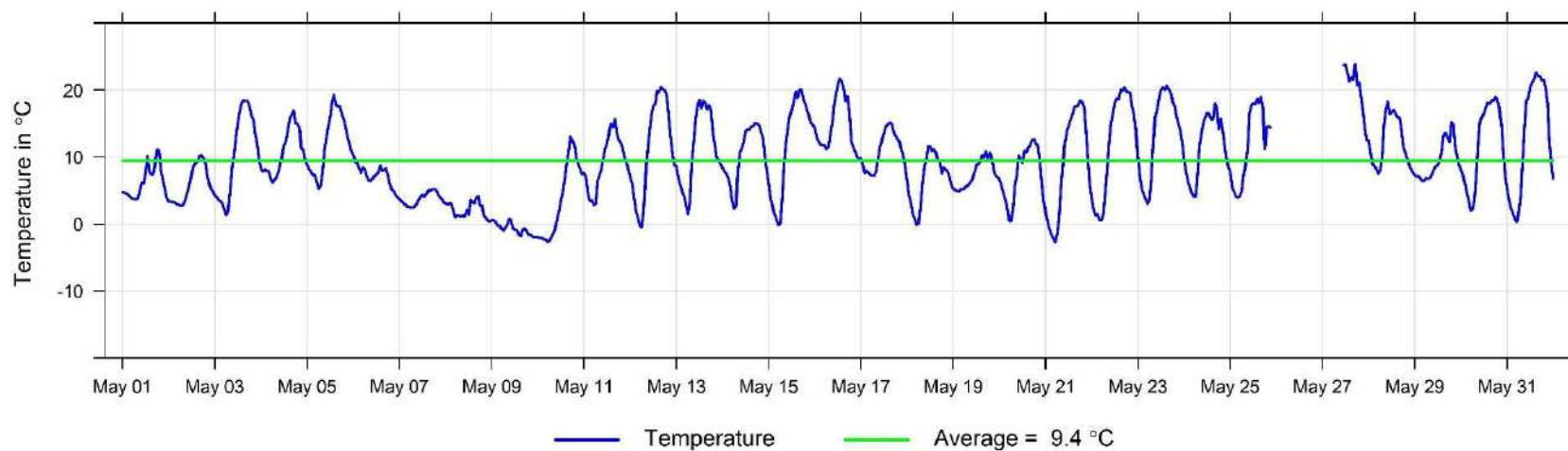
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



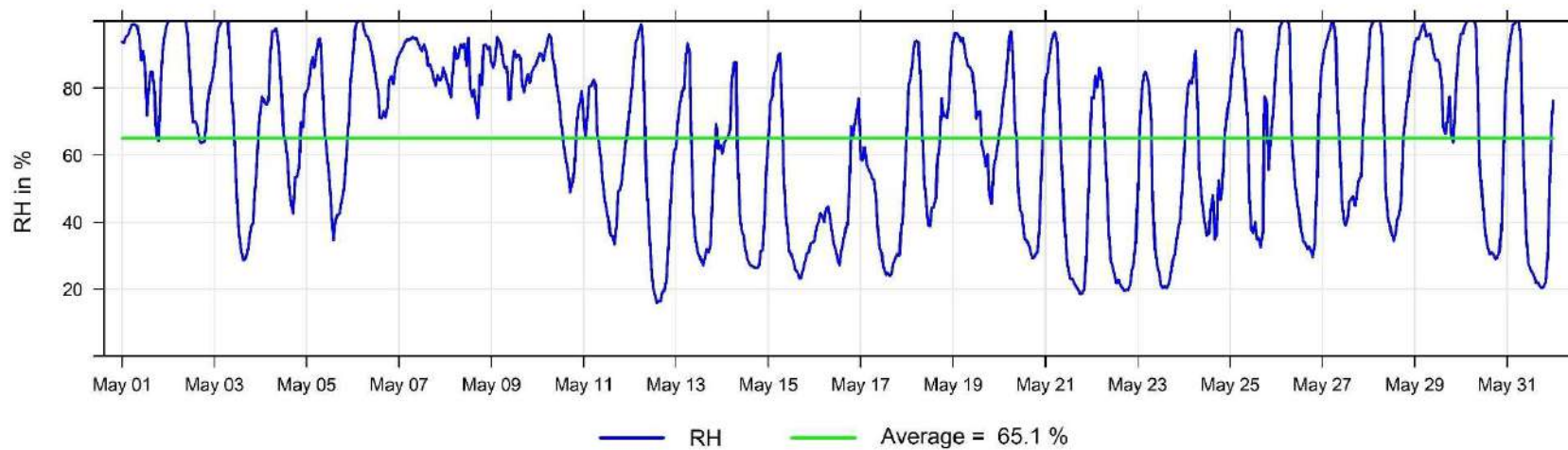
May 2022 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



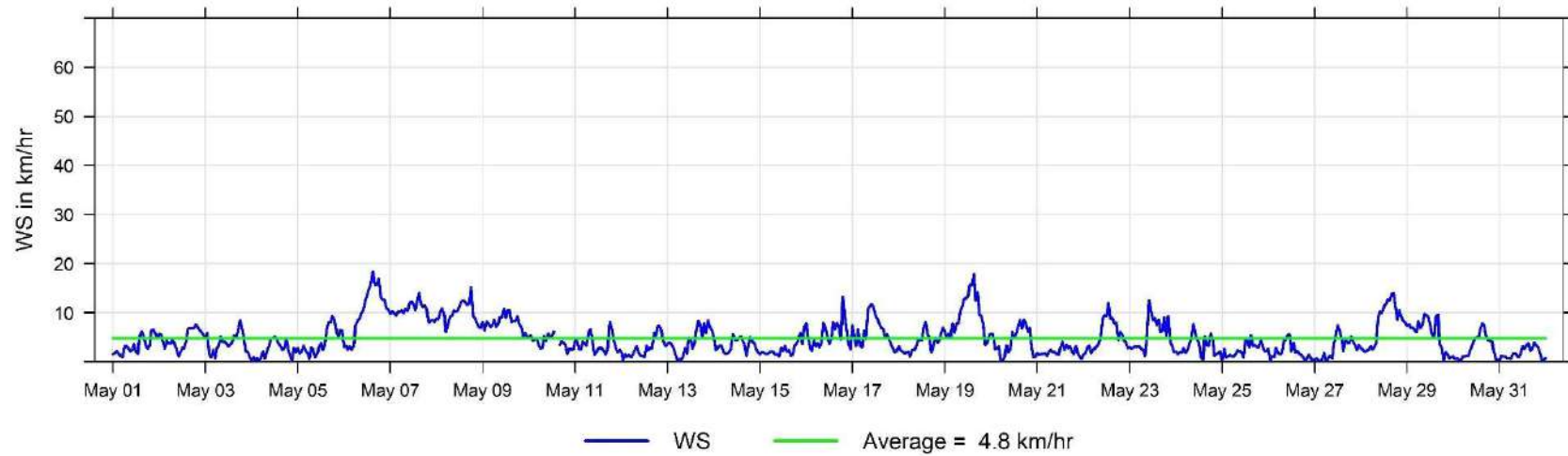
May 2022 Hourly Temperature Readings (in °C) at Valleyview



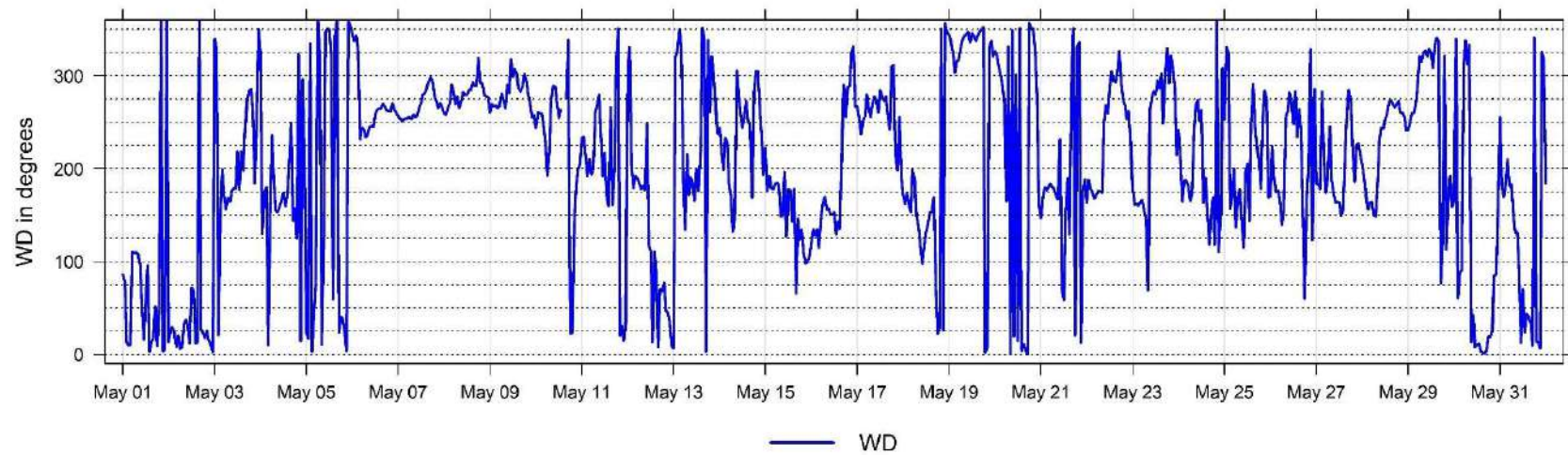
May 2022 Hourly Readings of Relative Humidity (in %) at Valleyview



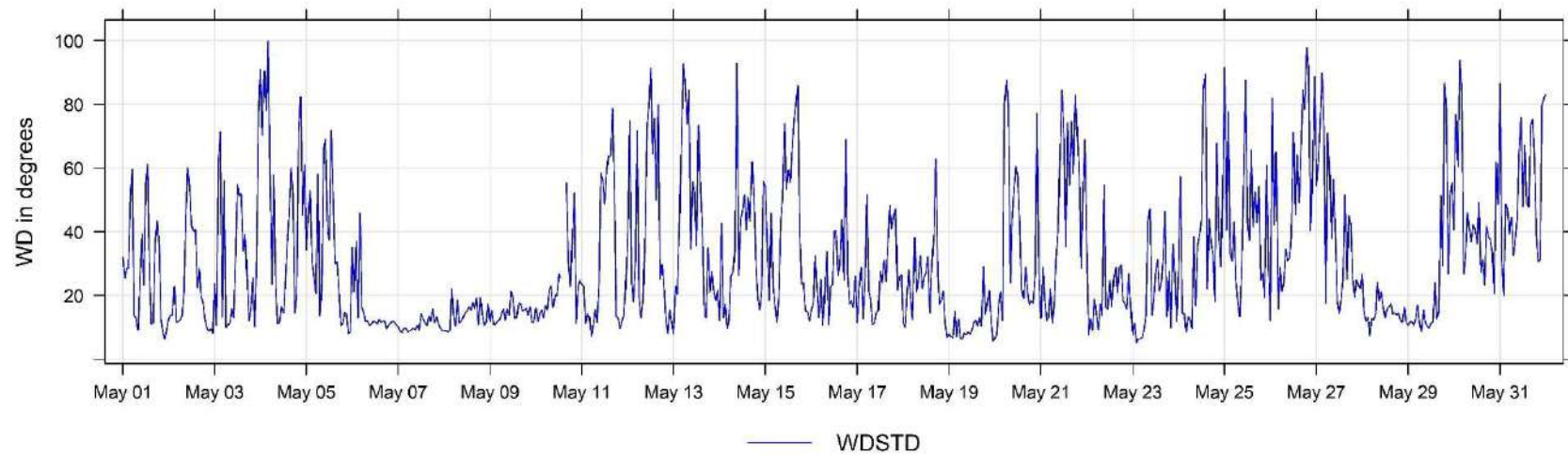
May 2022 Hourly Readings of Wind Speed (in km/hr) at Valleyview

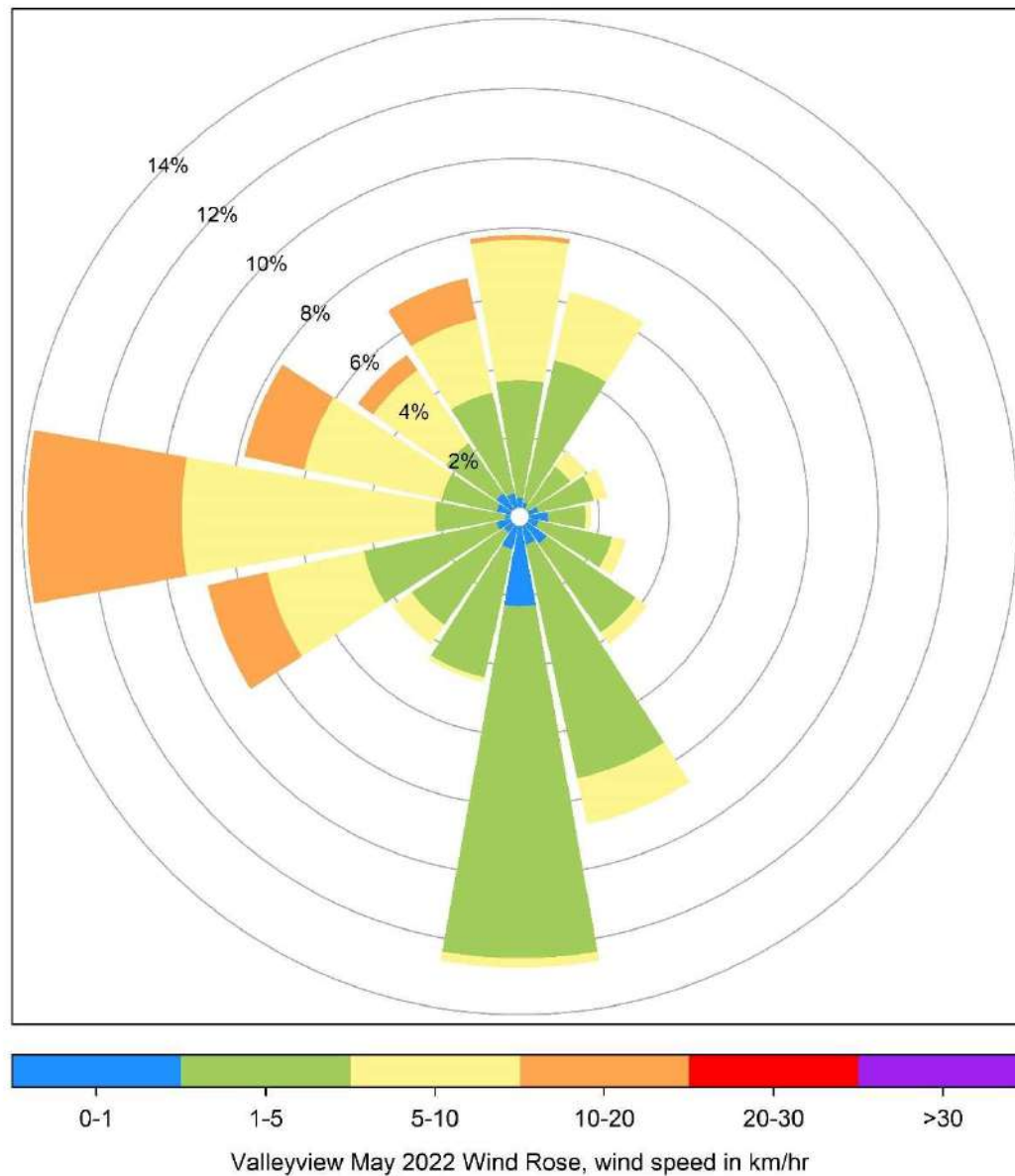


May 2022 Hourly Readings of Wind Direction (in degrees) at Valleyview



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview

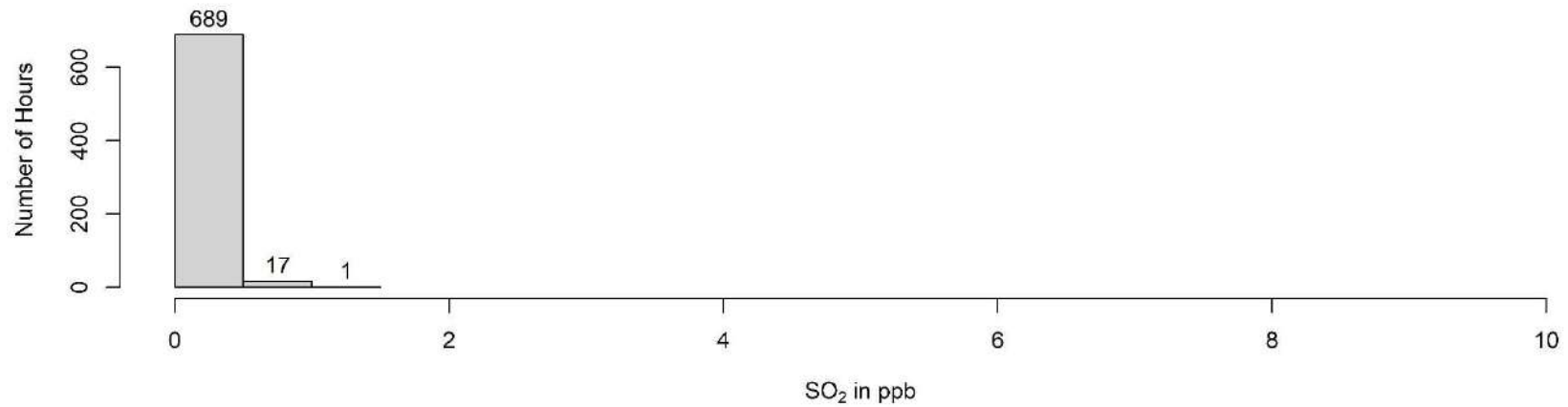
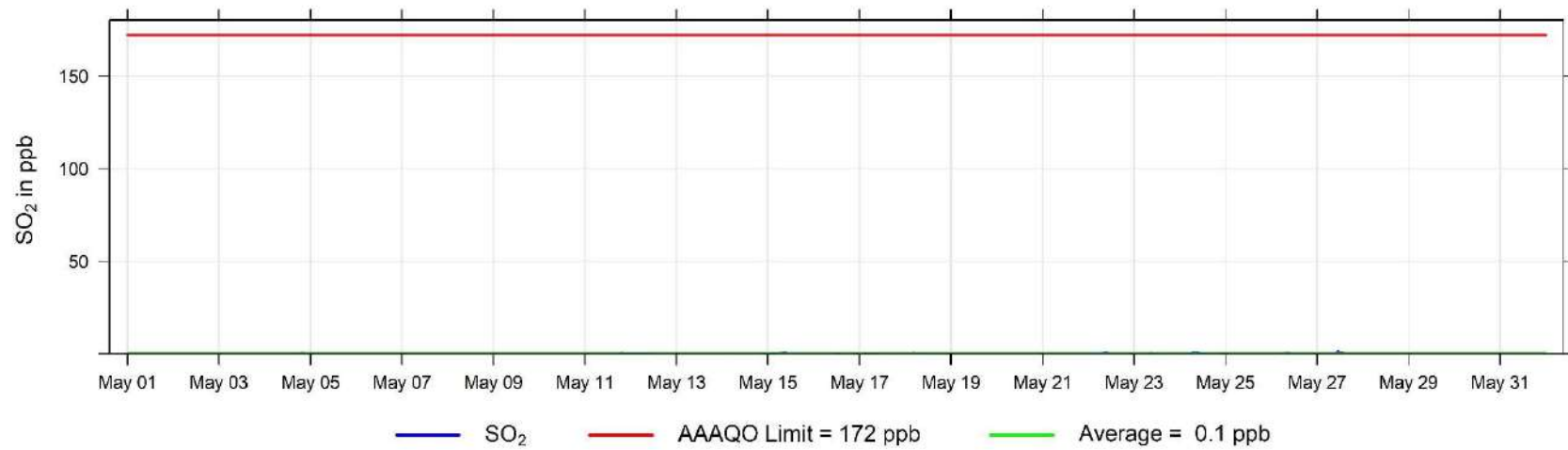




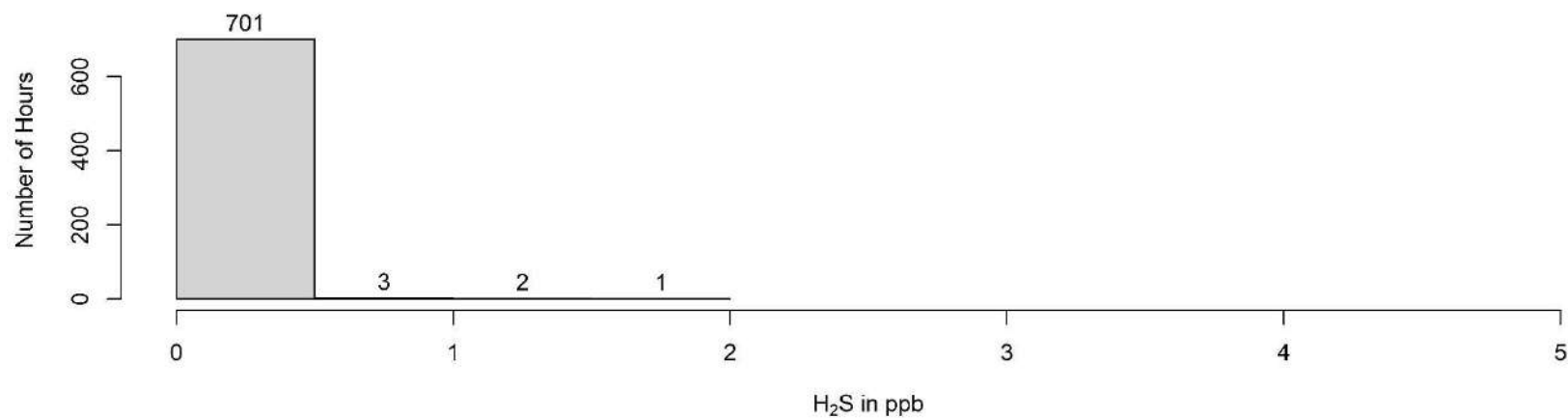
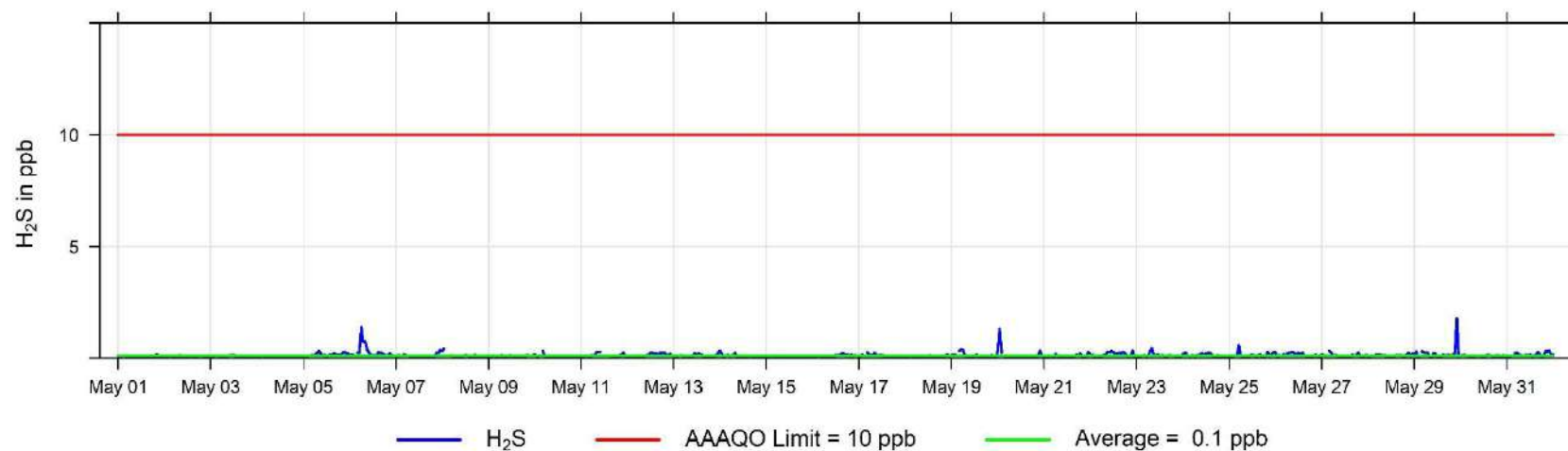
7 Donnelly Charts

The following pages include the charts and histograms for Donnelly Station

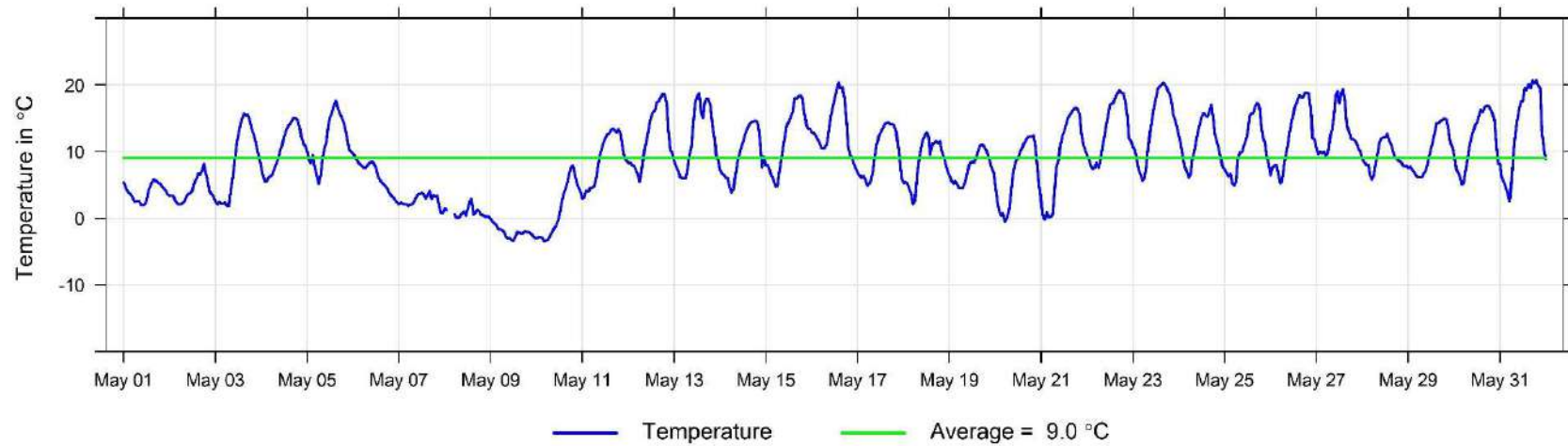
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Donnelly



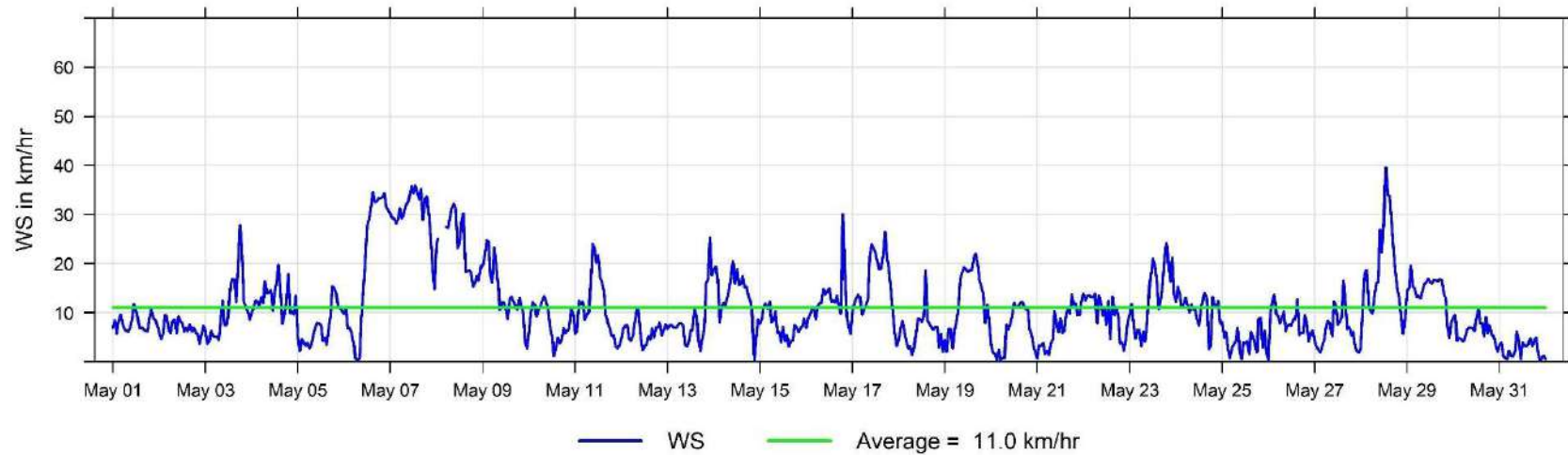
May 2022 Hourly Concentration Readings of H₂S (in ppb) at Donnelly



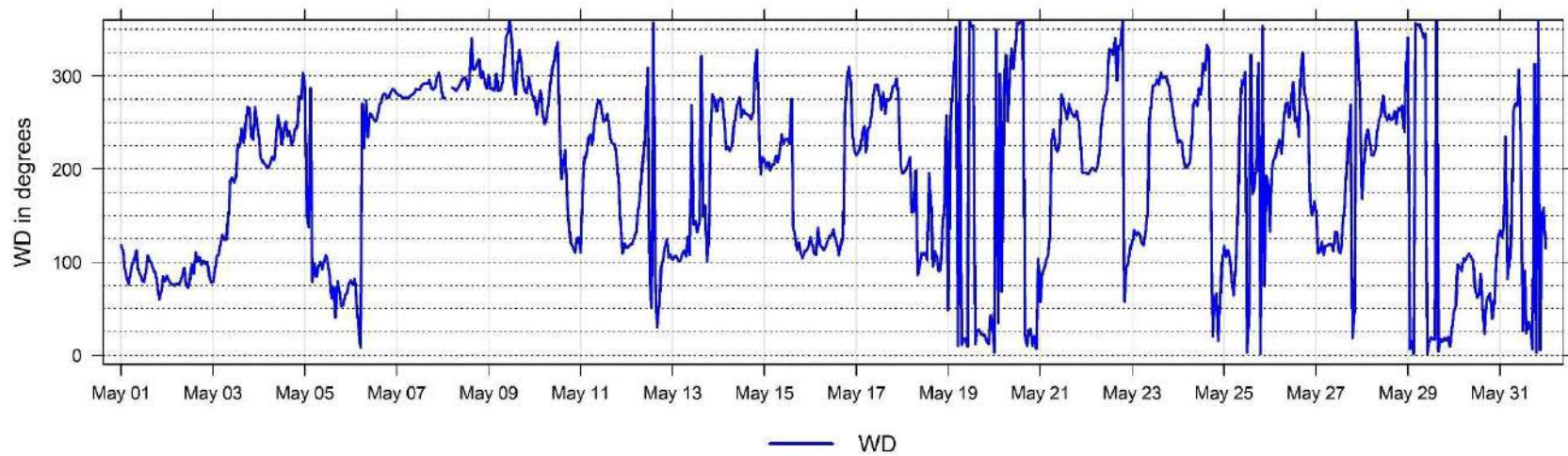
May 2022 Hourly Temperature Readings (in °C) at Donnelly



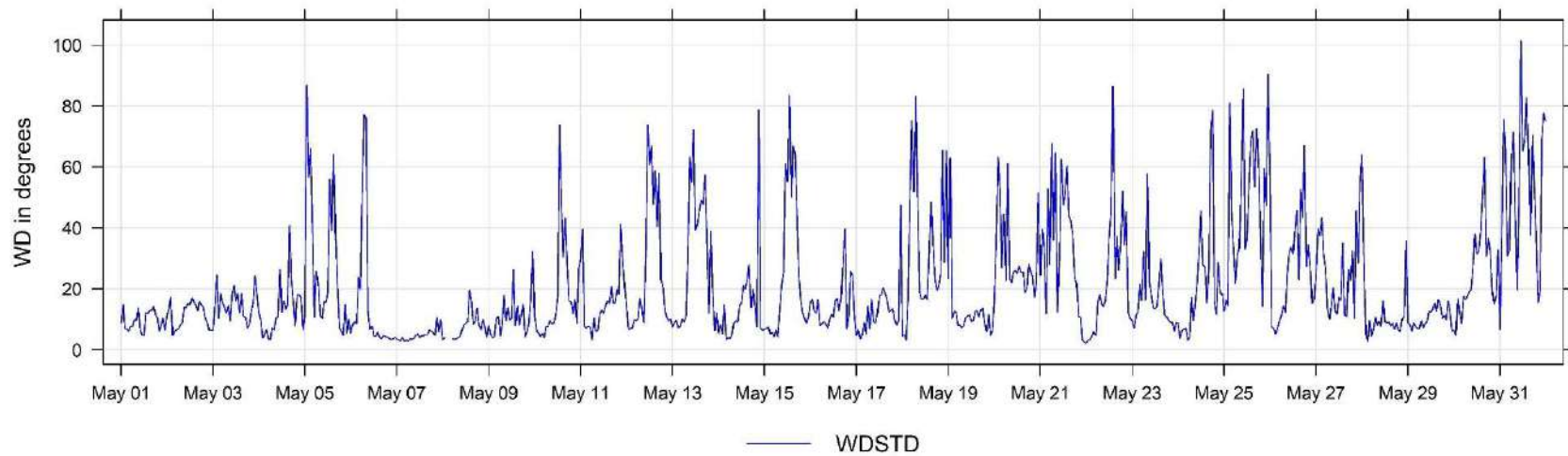
May 2022 Hourly Readings of Wind Speed (in km/hr) at Donnelly

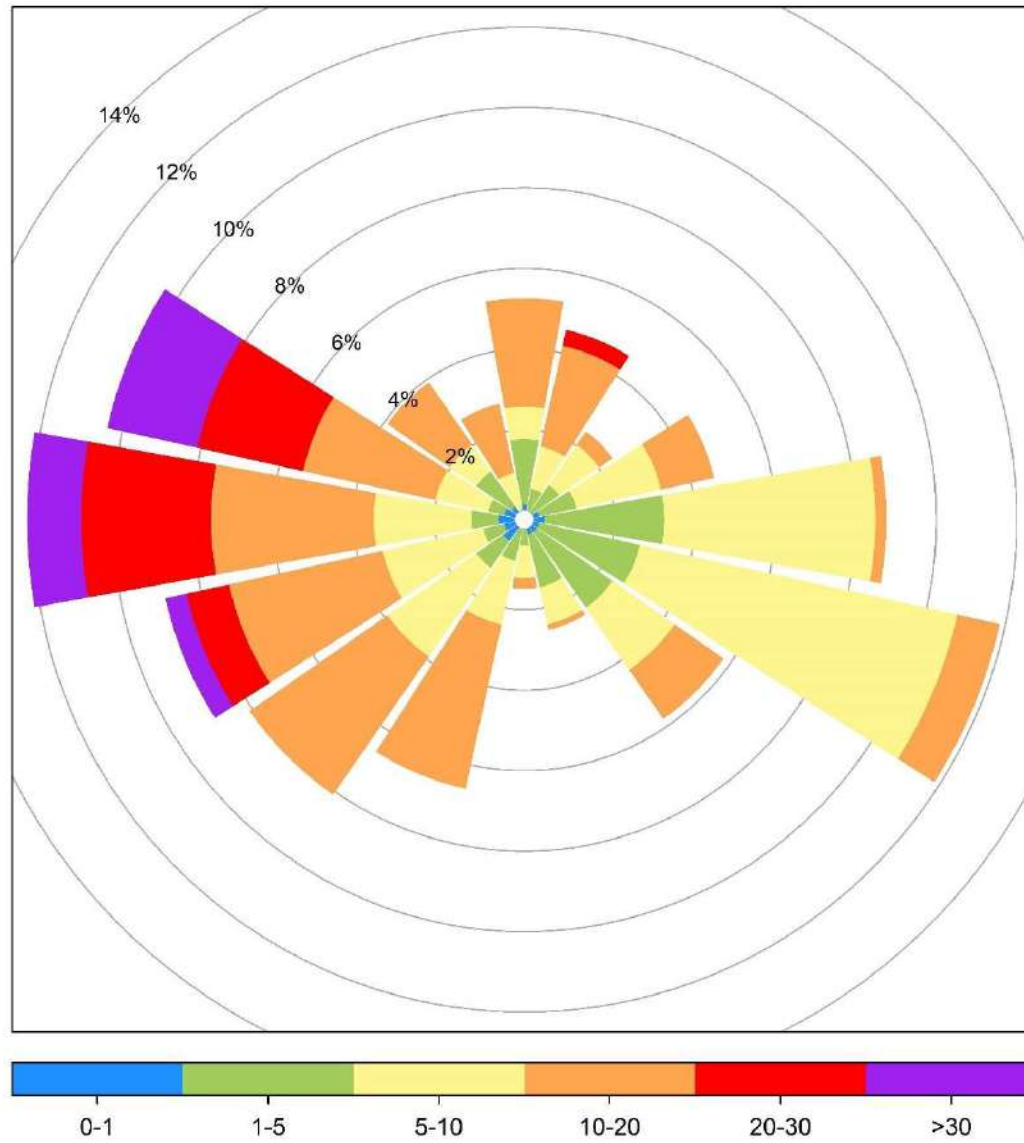


May 2022 Hourly Readings of Wind Direction (in degrees) at Donnelly



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Donnelly

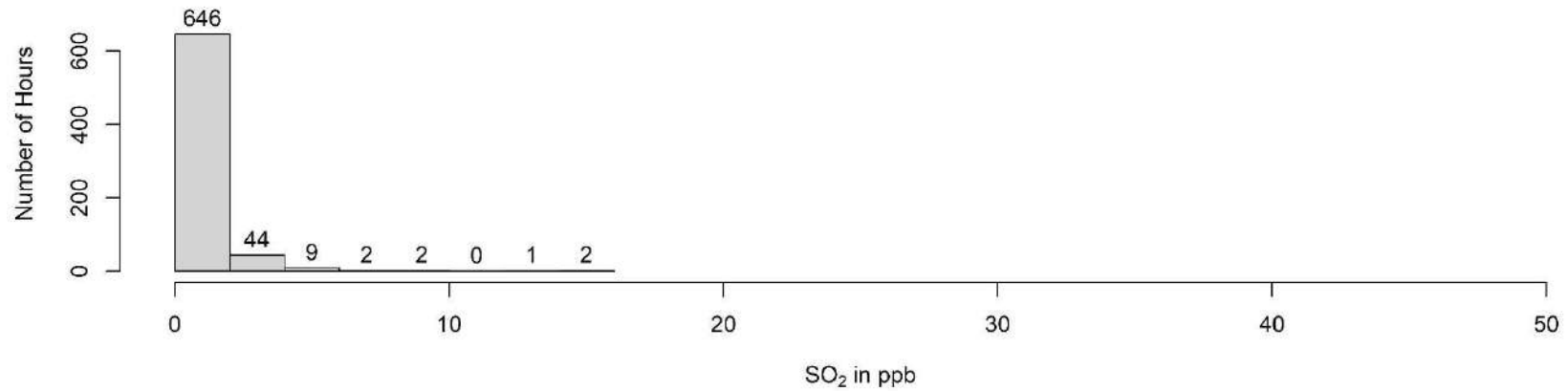
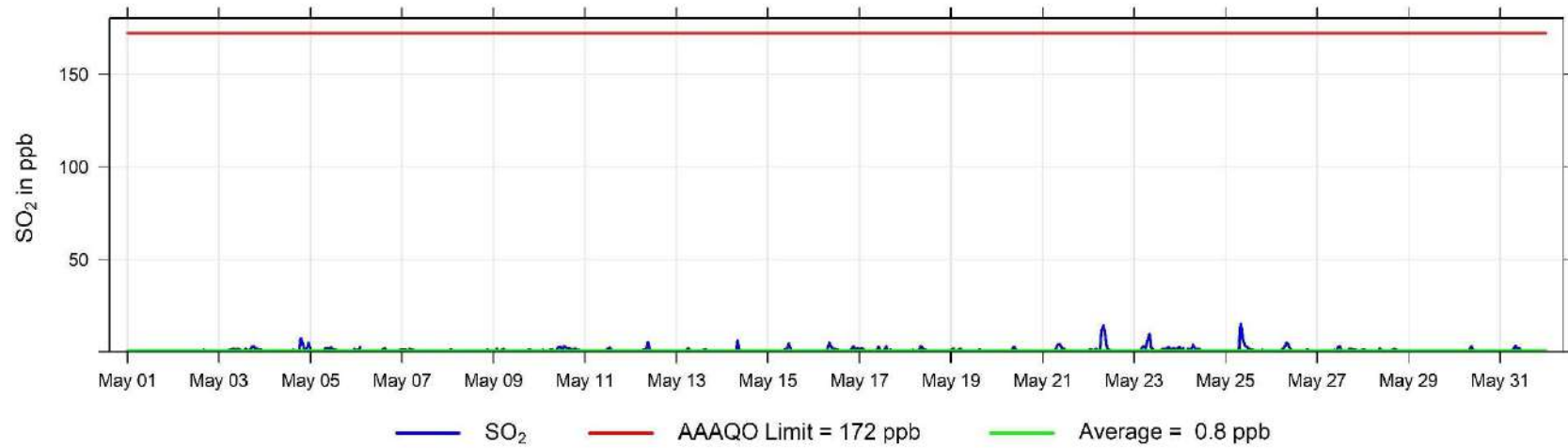




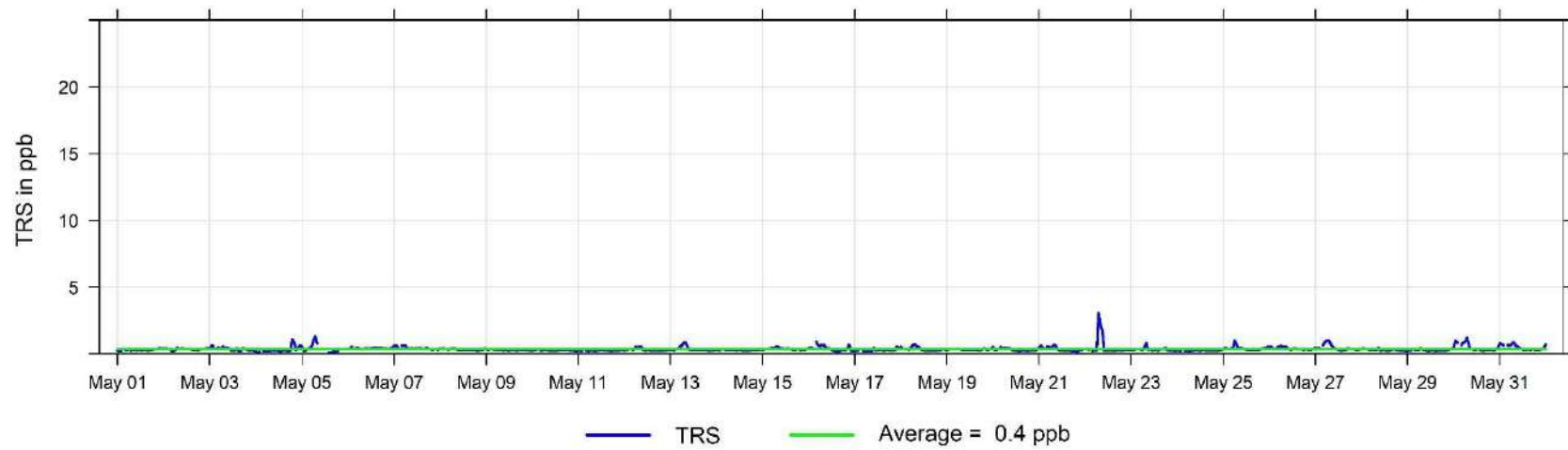
8 Poplar (Portable) Charts

The following pages include the charts and histograms for Poplar Portable Station

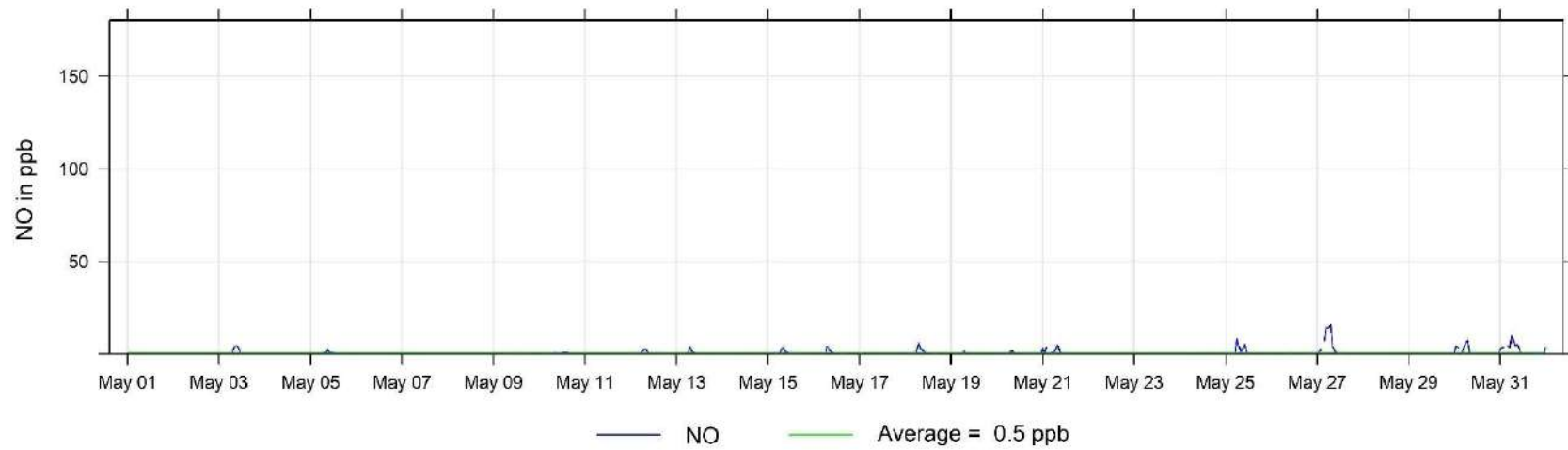
May 2022 Hourly Concentration Readings of SO₂ (in ppb) at Poplar



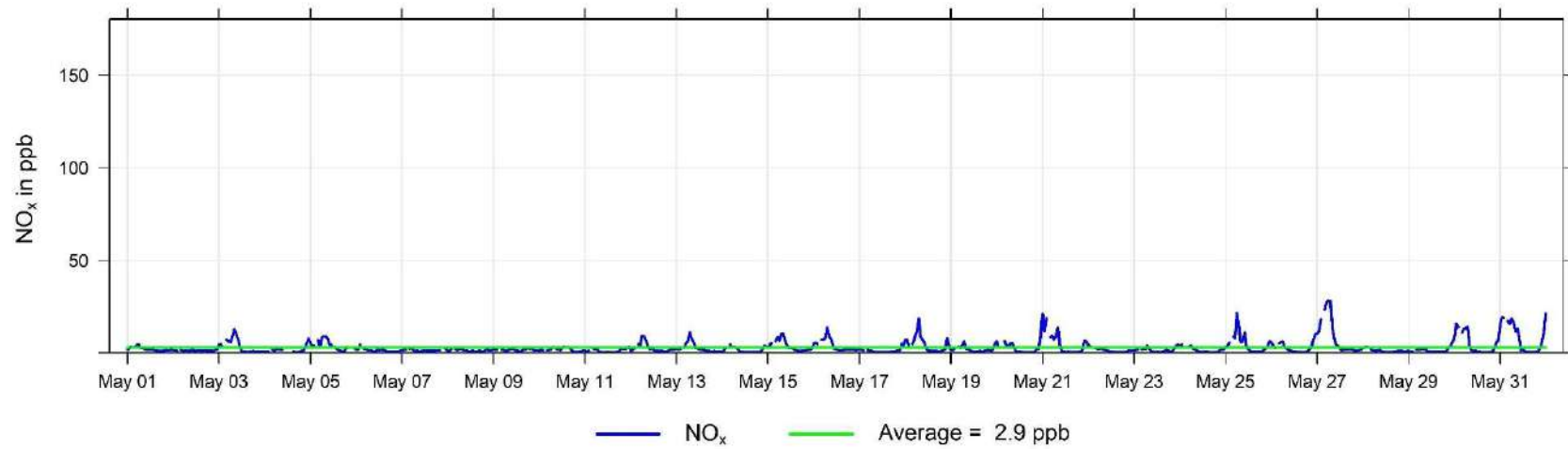
May 2022 Hourly Concentration Readings of TRS (in ppb) at Poplar



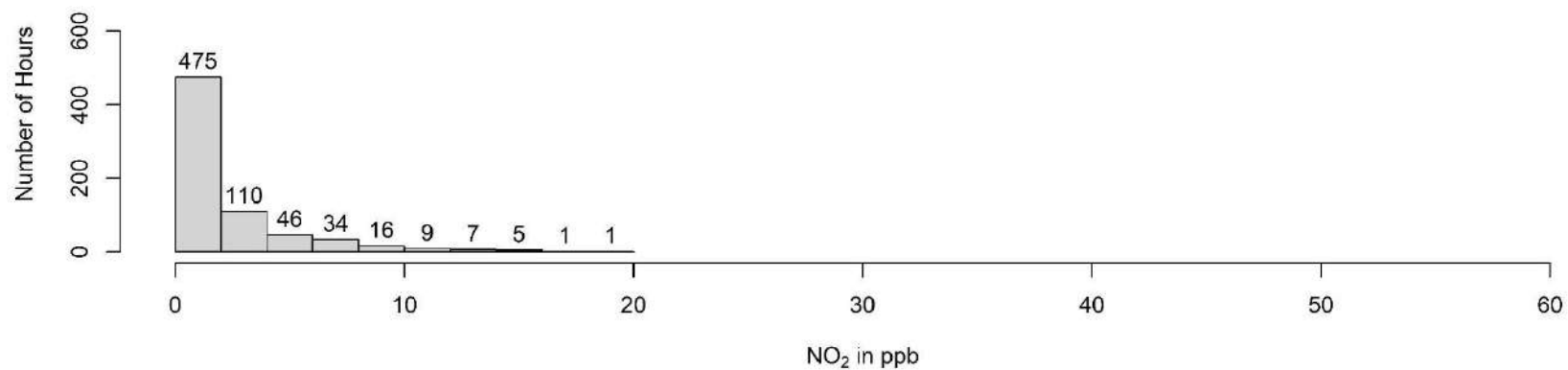
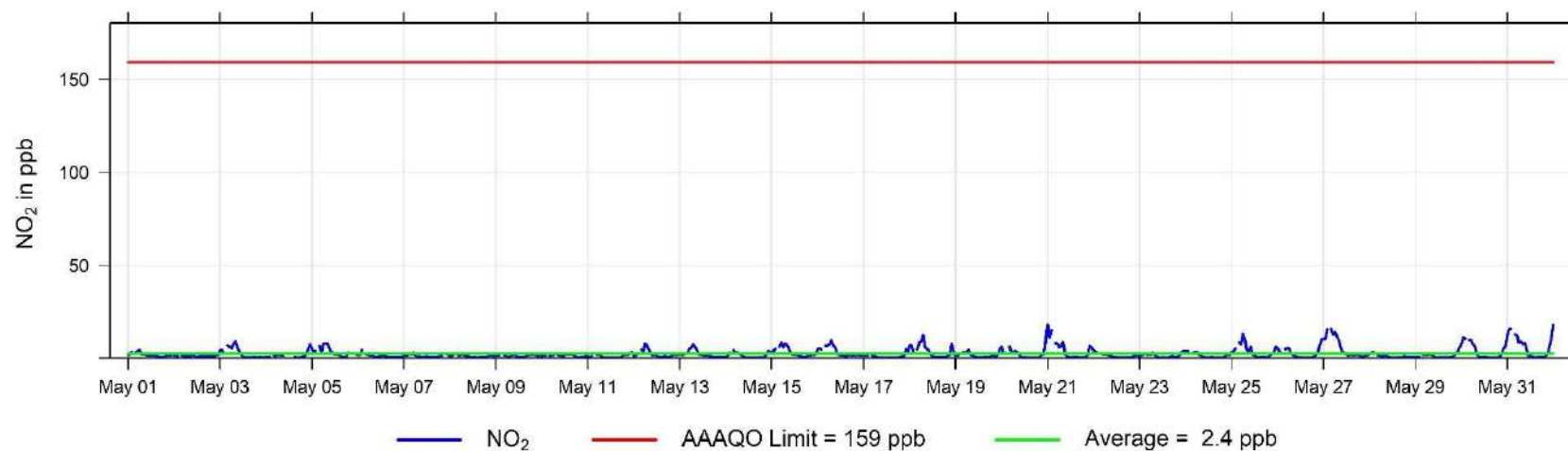
May 2022 Hourly Concentration Readings of NO (in ppb) at Poplar



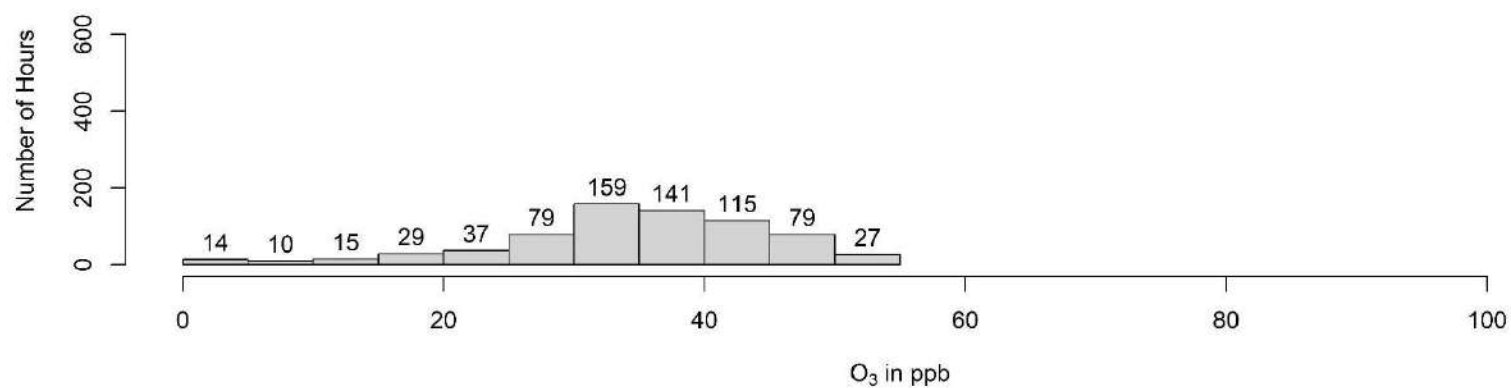
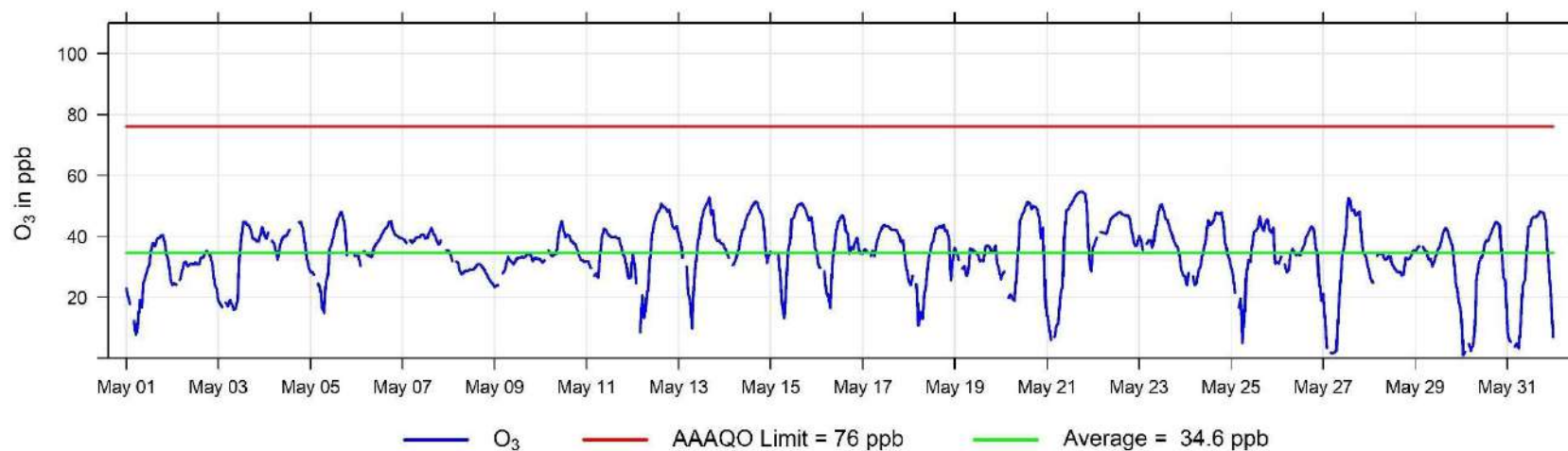
May 2022 Hourly Concentration Readings of NO_x (in ppb) at Poplar



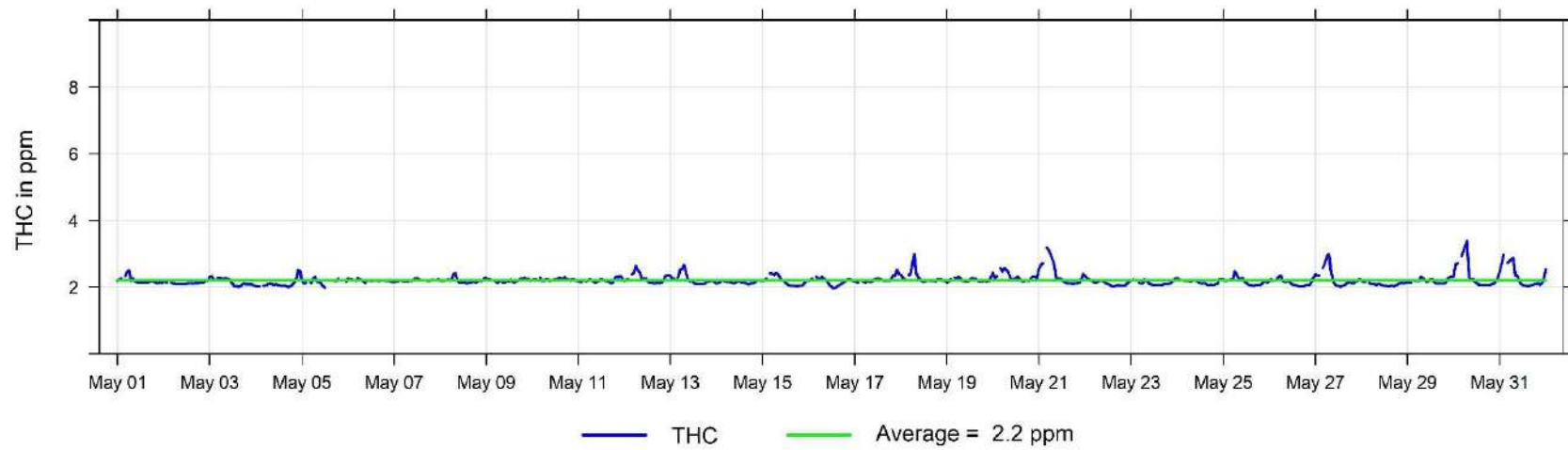
May 2022 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



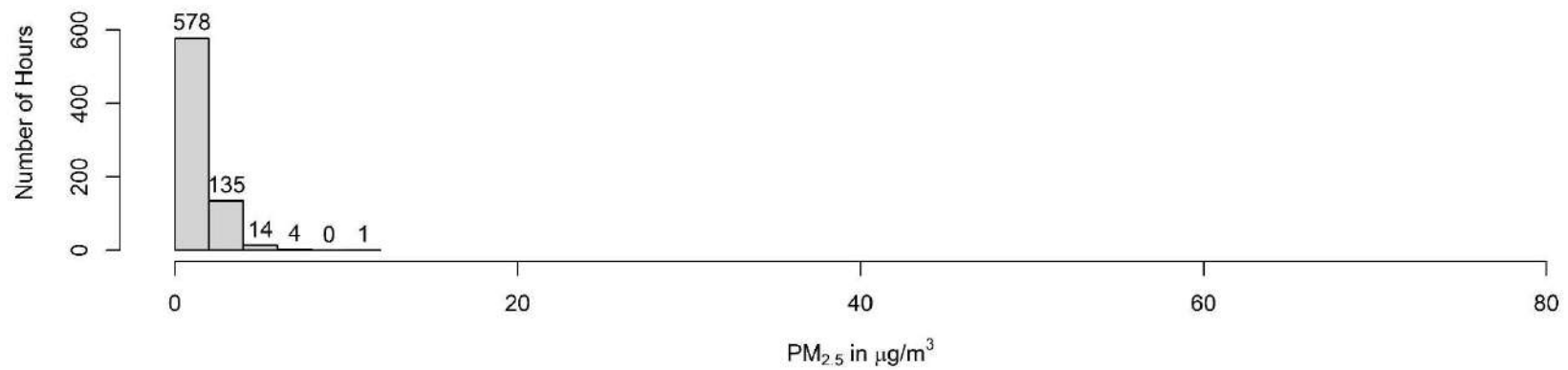
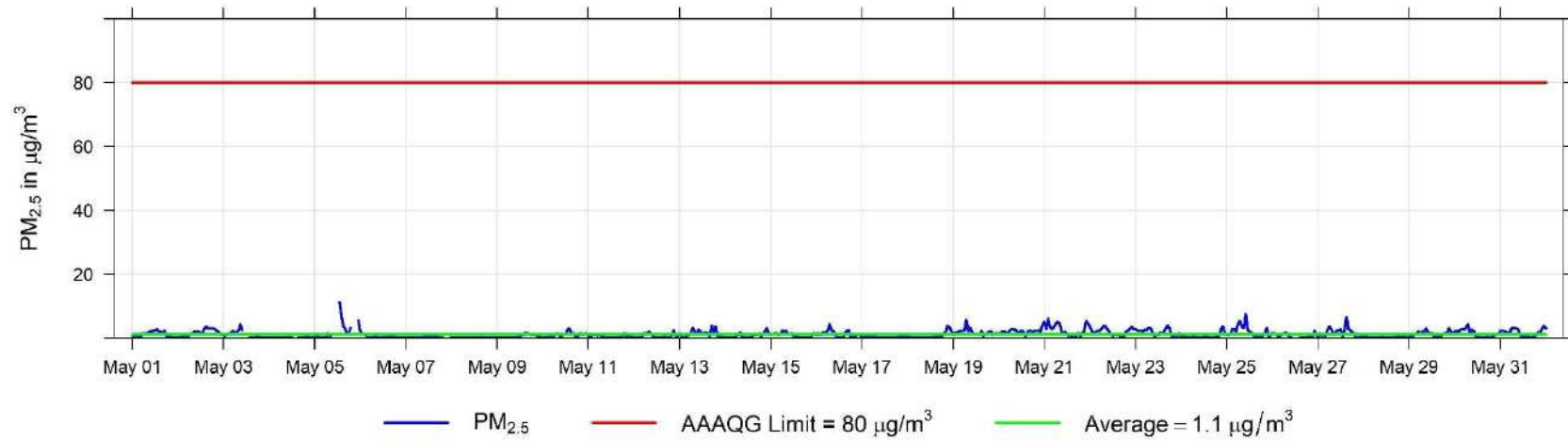
May 2022 Hourly Concentration Readings of O₃ (in ppb) at Poplar



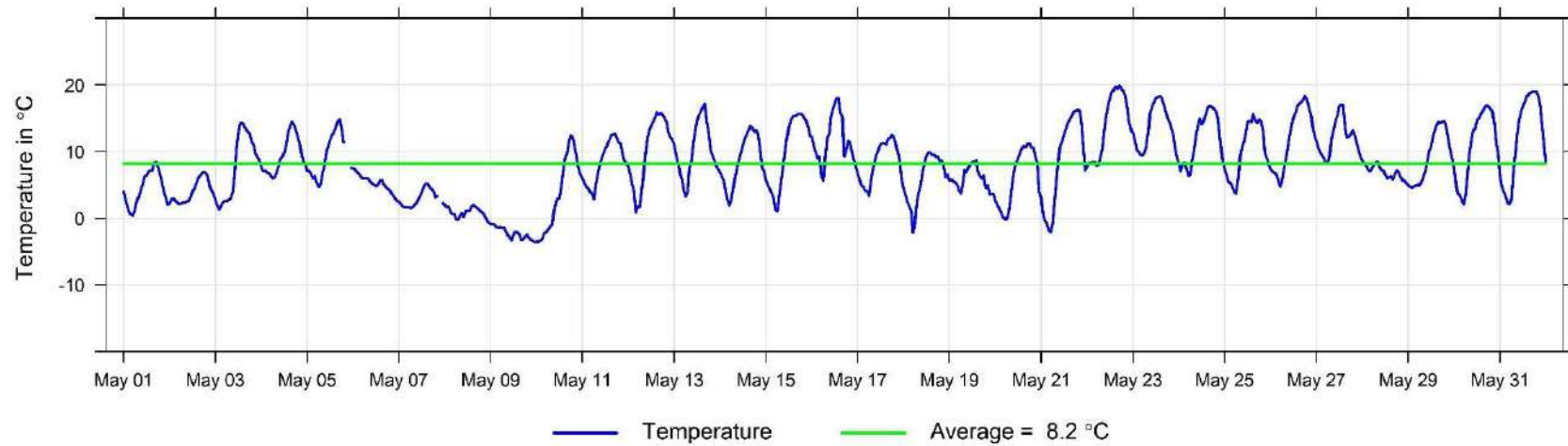
May 2022 Hourly Concentration Readings of THC (in ppm) at Poplar



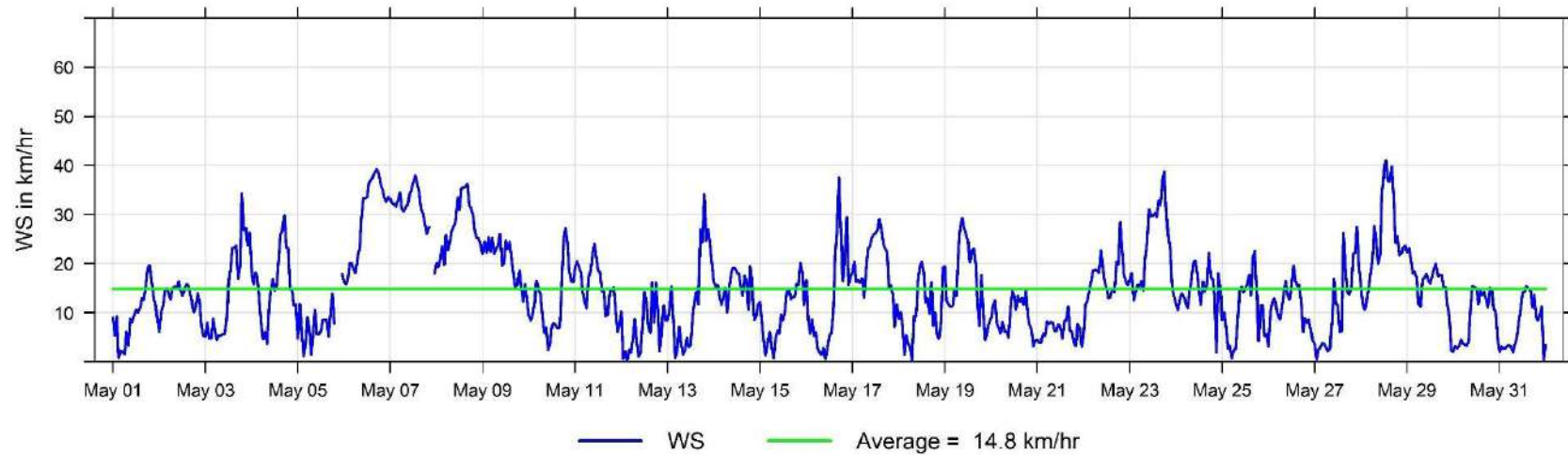
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Poplar



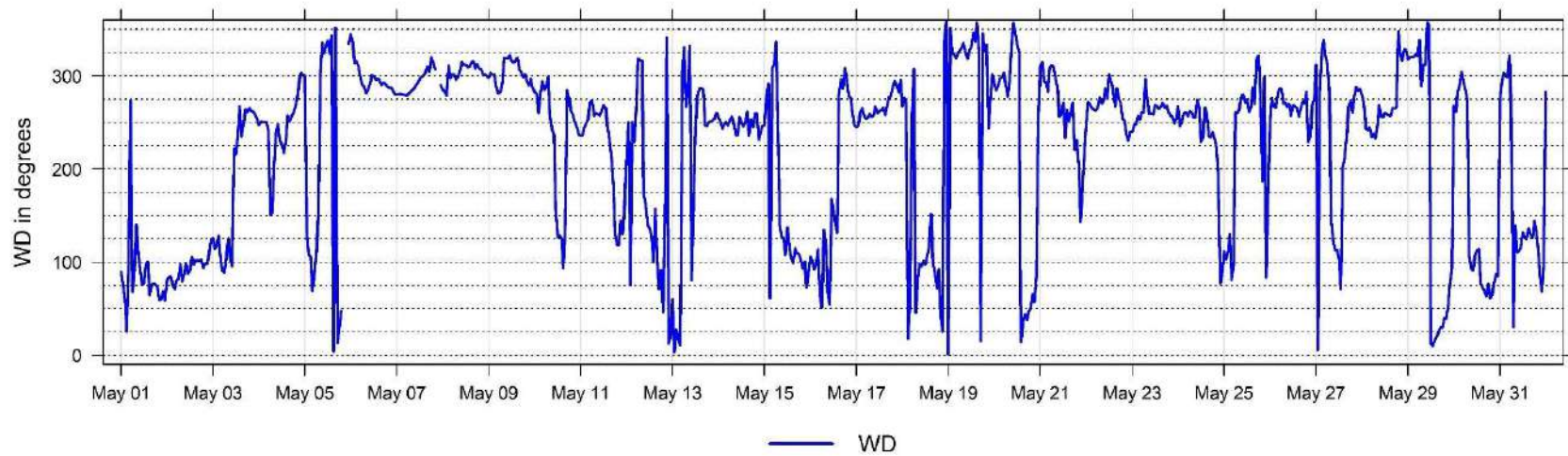
May 2022 Hourly Temperature Readings (in °C) at Poplar



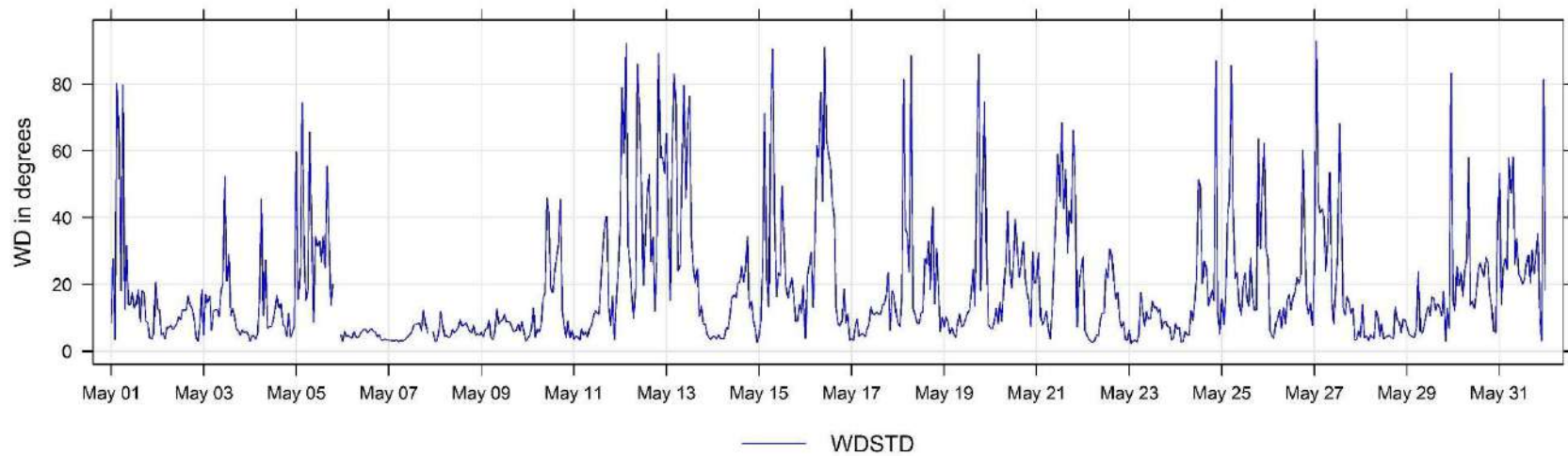
May 2022 Hourly Readings of Wind Speed (in km/hr) at Poplar

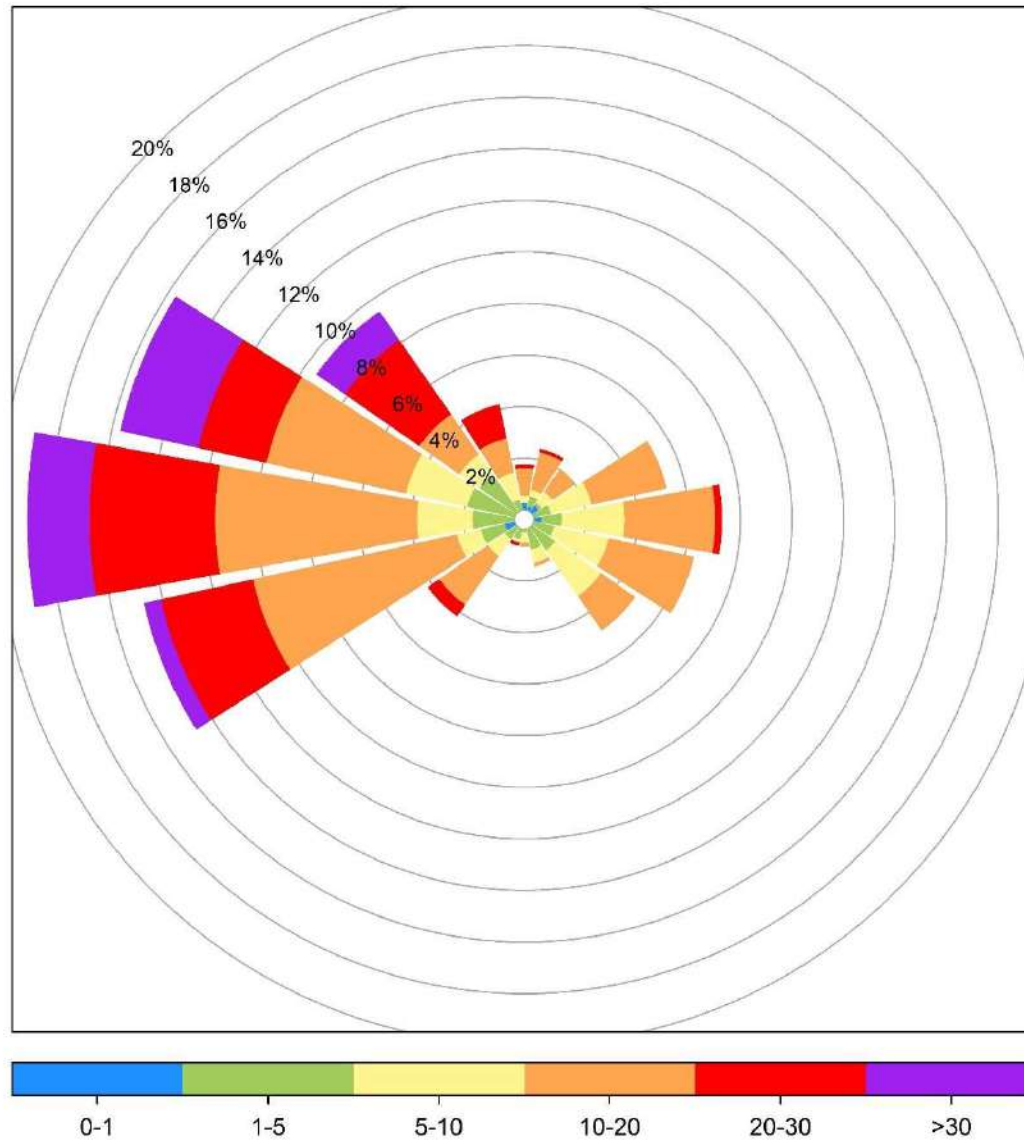


May 2022 Hourly Readings of Wind Direction (in degrees) at Poplar



May 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Poplar



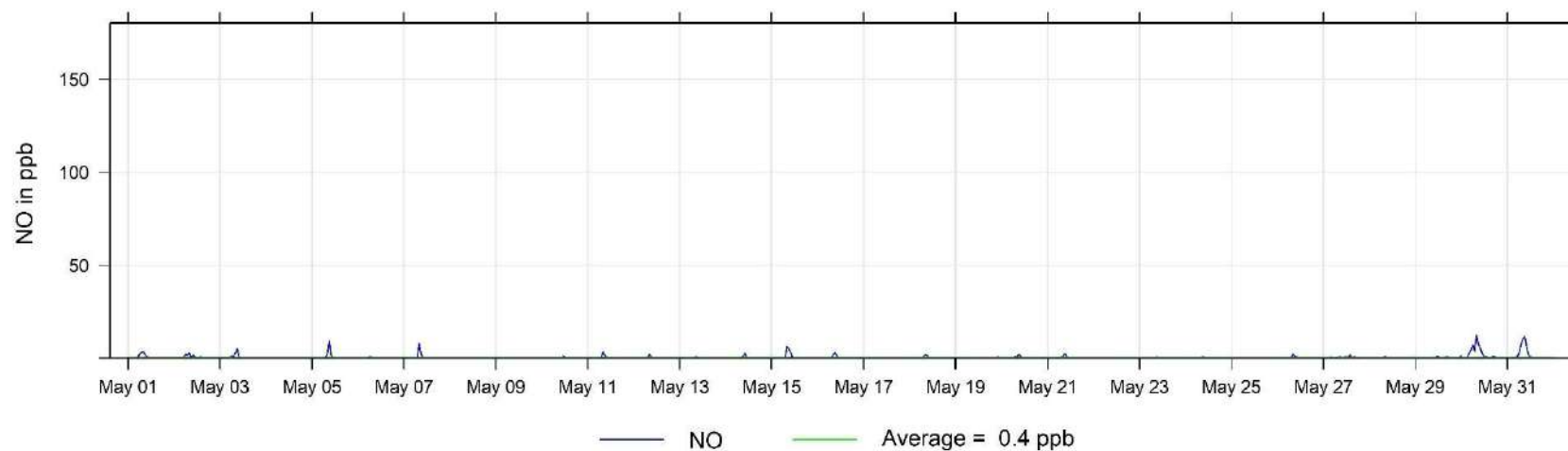


Poplar May 2022 Wind Rose, wind speed in km/hr

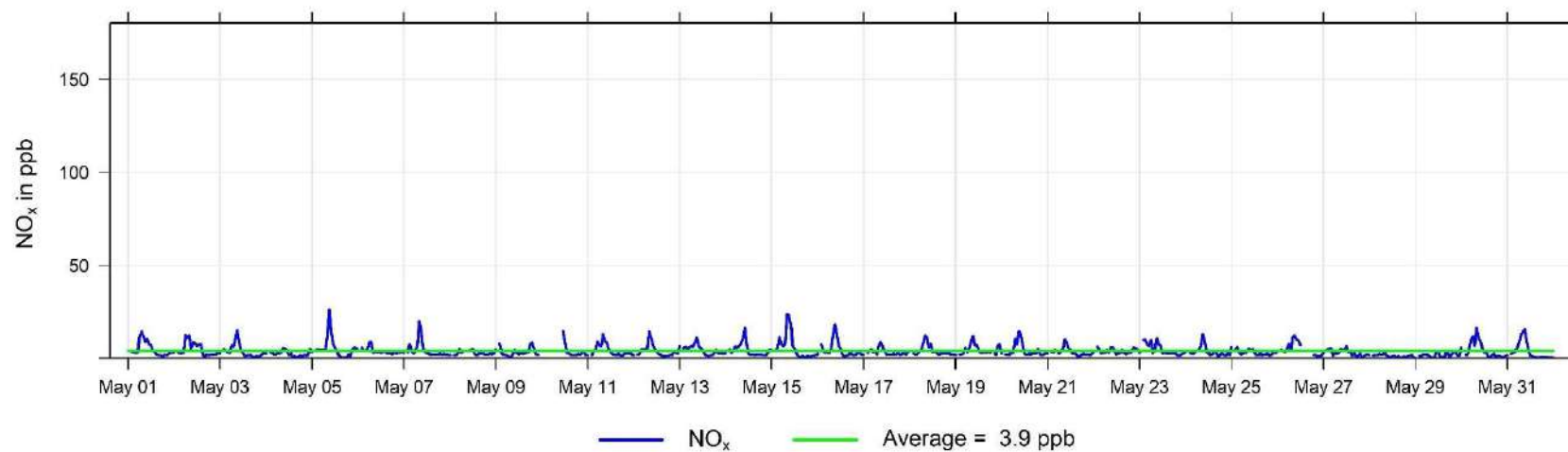
9 Milner Charts

The following pages include the charts and histograms for Poplar Portable Station

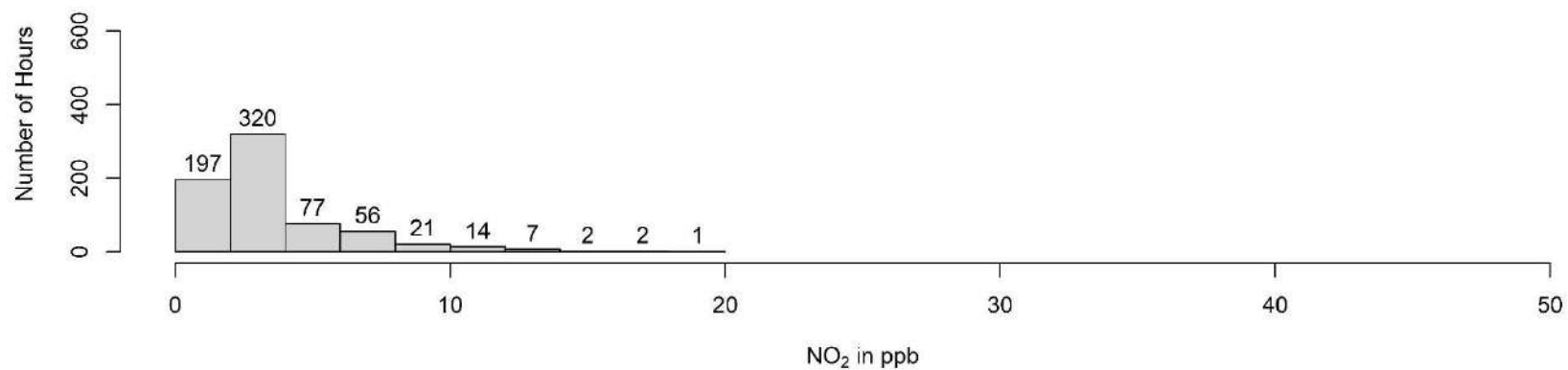
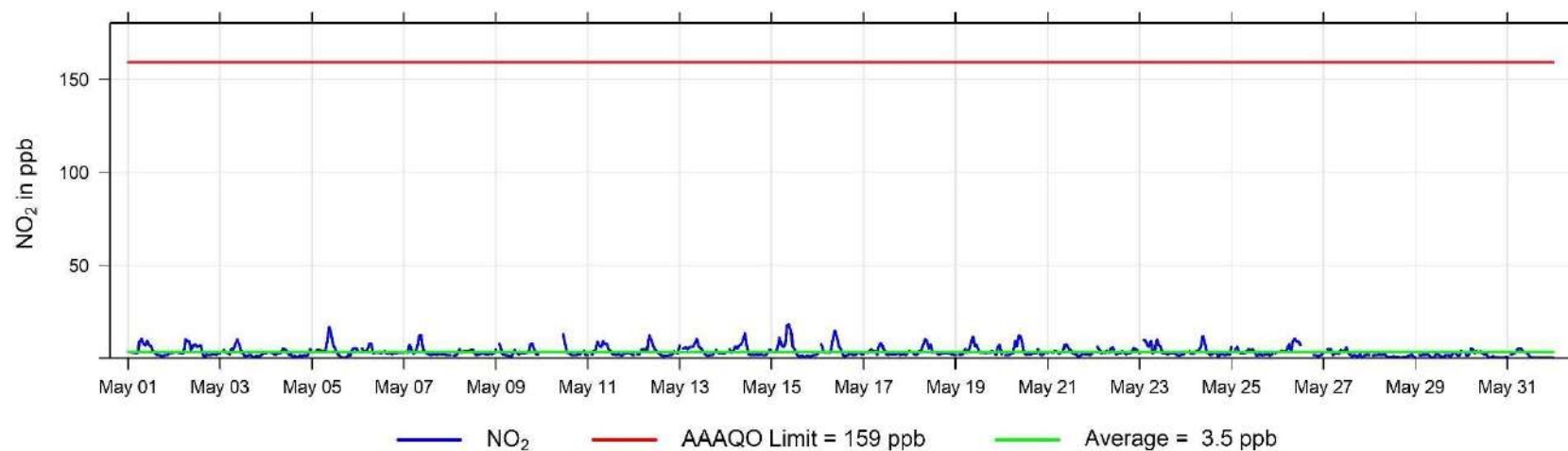
May 2022 Hourly Concentration Readings of NO (in ppb) at Milner



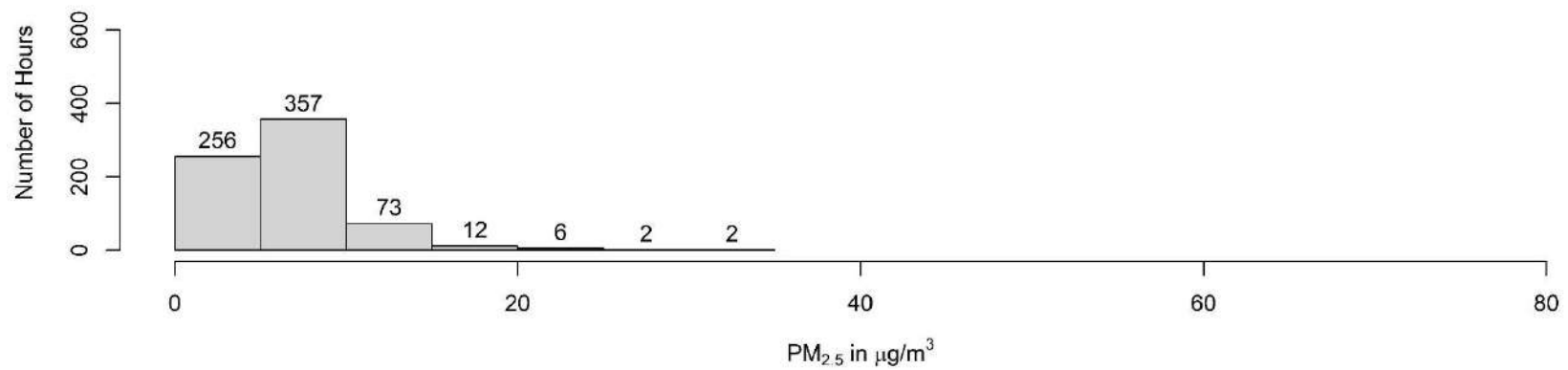
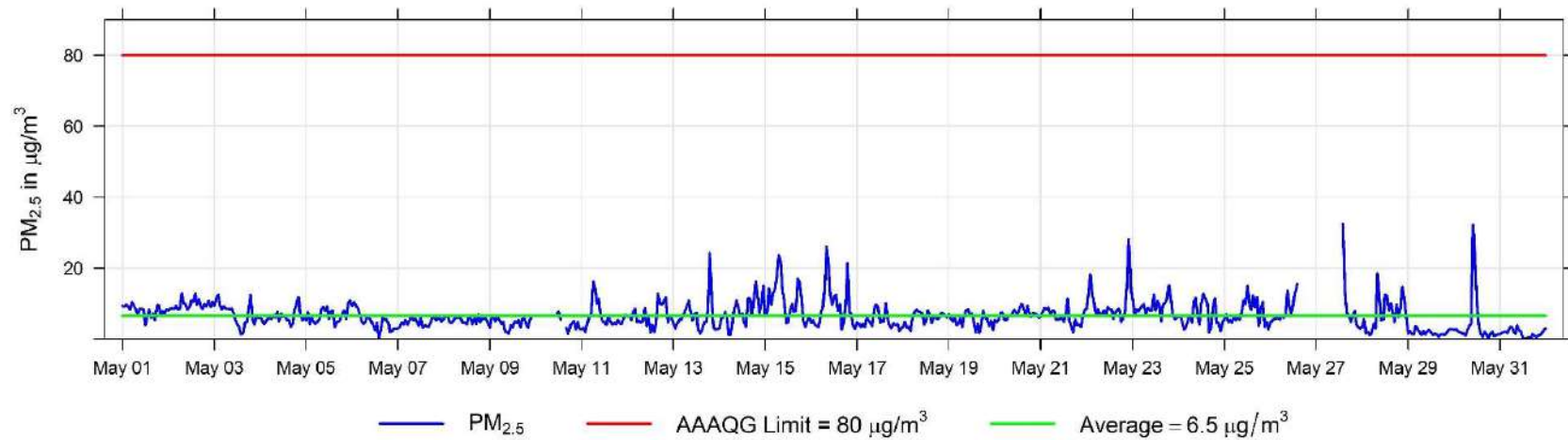
May 2022 Hourly Concentration Readings of NO_x (in ppb) at Milner



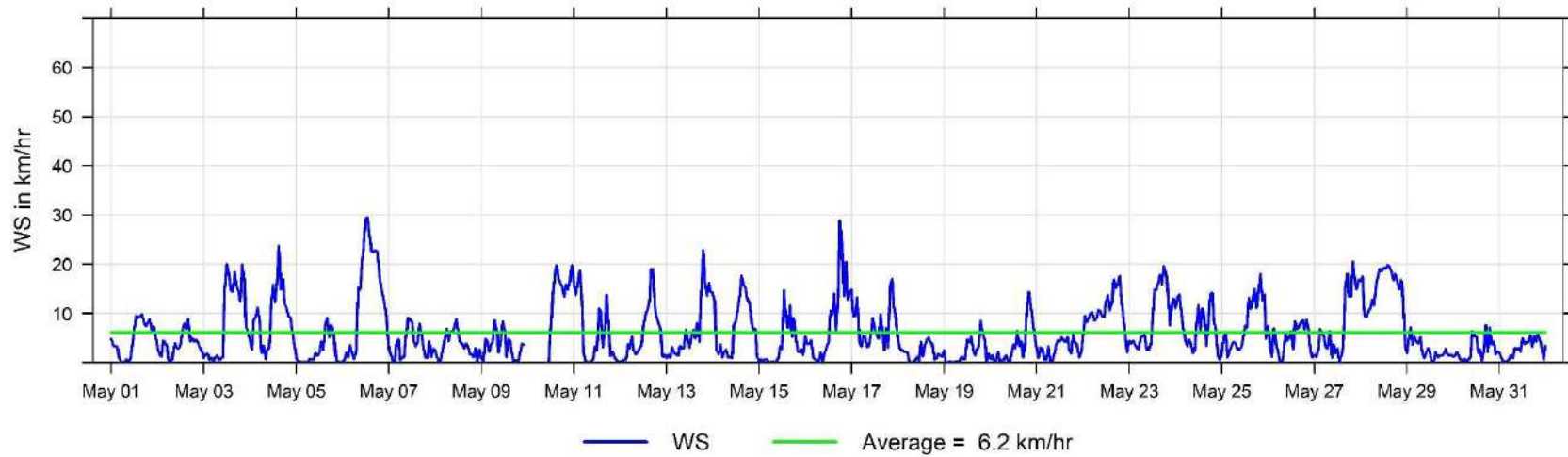
May 2022 Hourly Concentration Readings of NO₂ (in ppb) at Milner



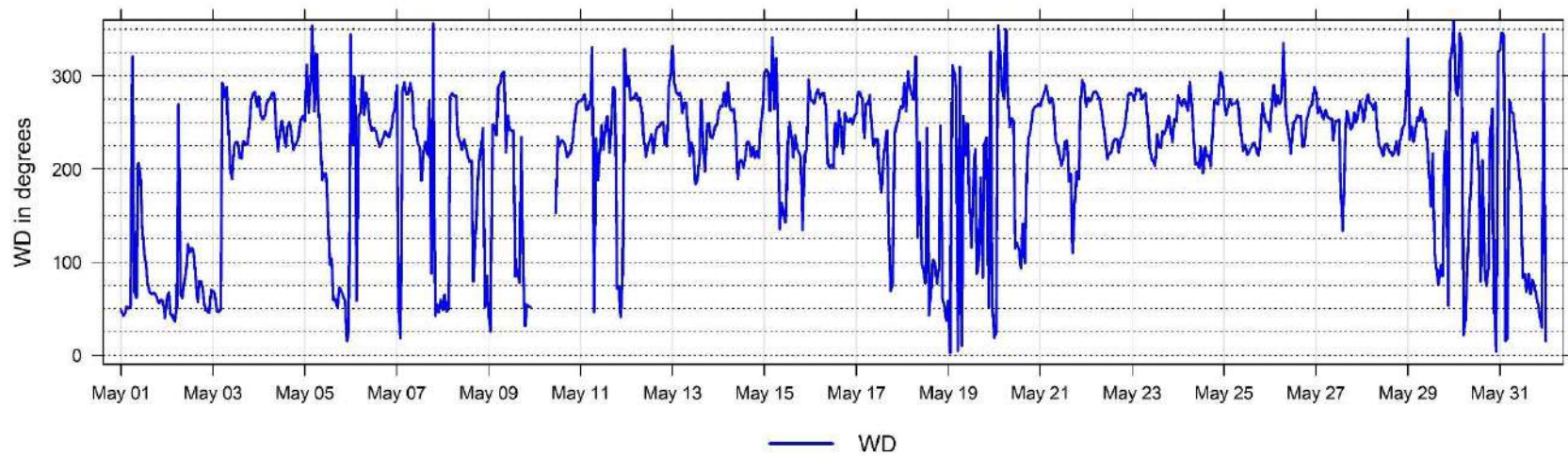
May 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner

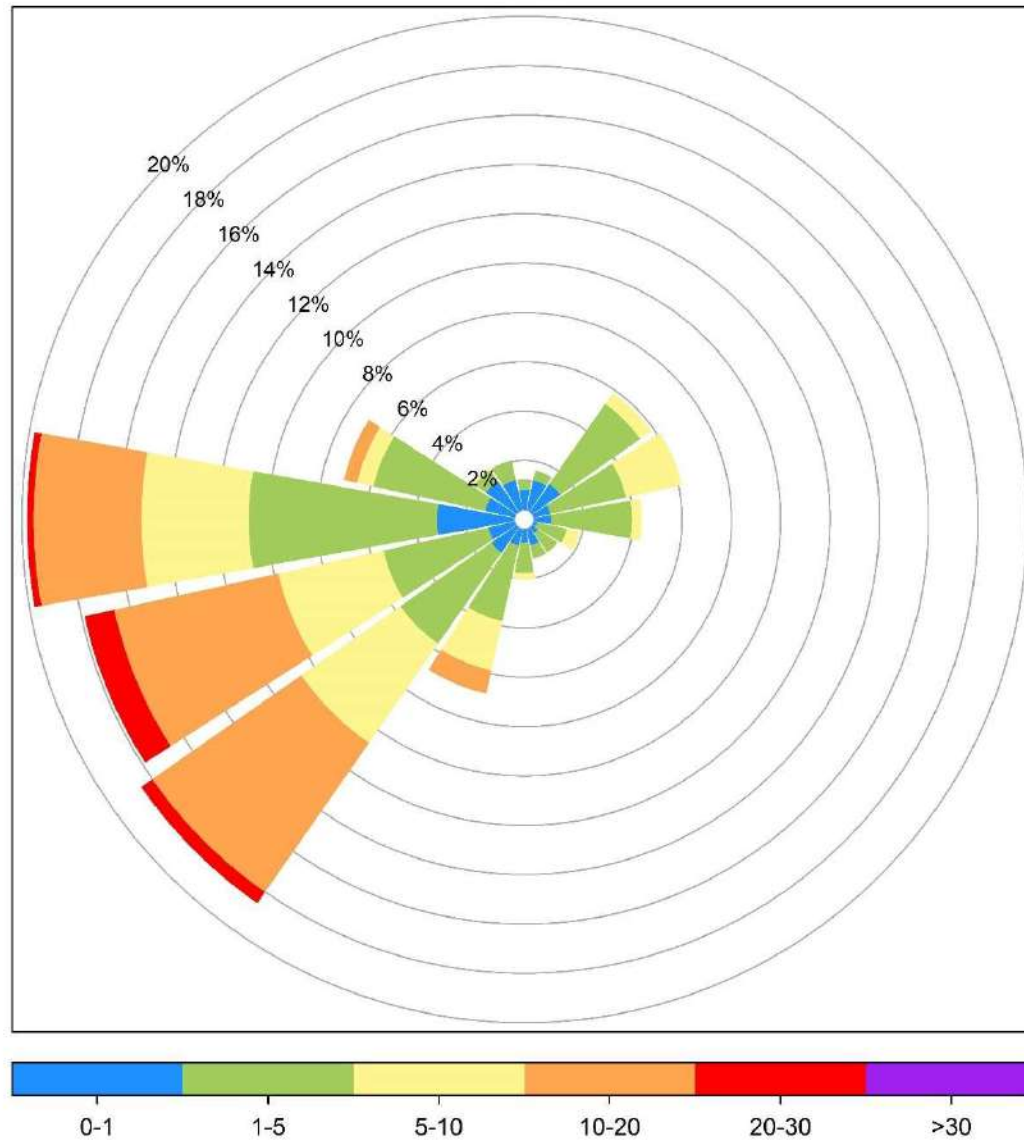


May 2022 Hourly Readings of Wind Speed (in km/hr) at Milner



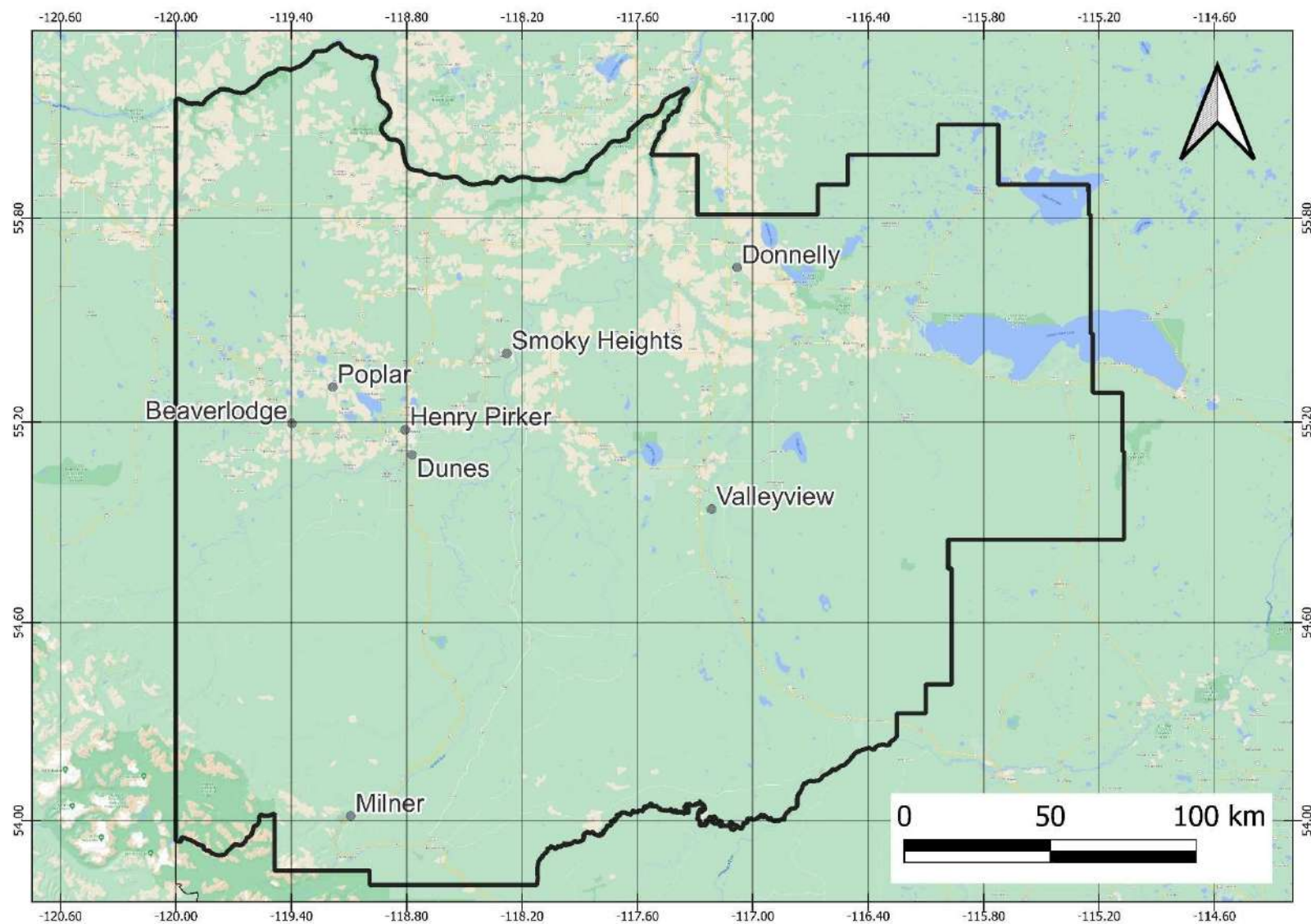
May 2022 Hourly Readings of Wind Direction (in degrees) at Milner



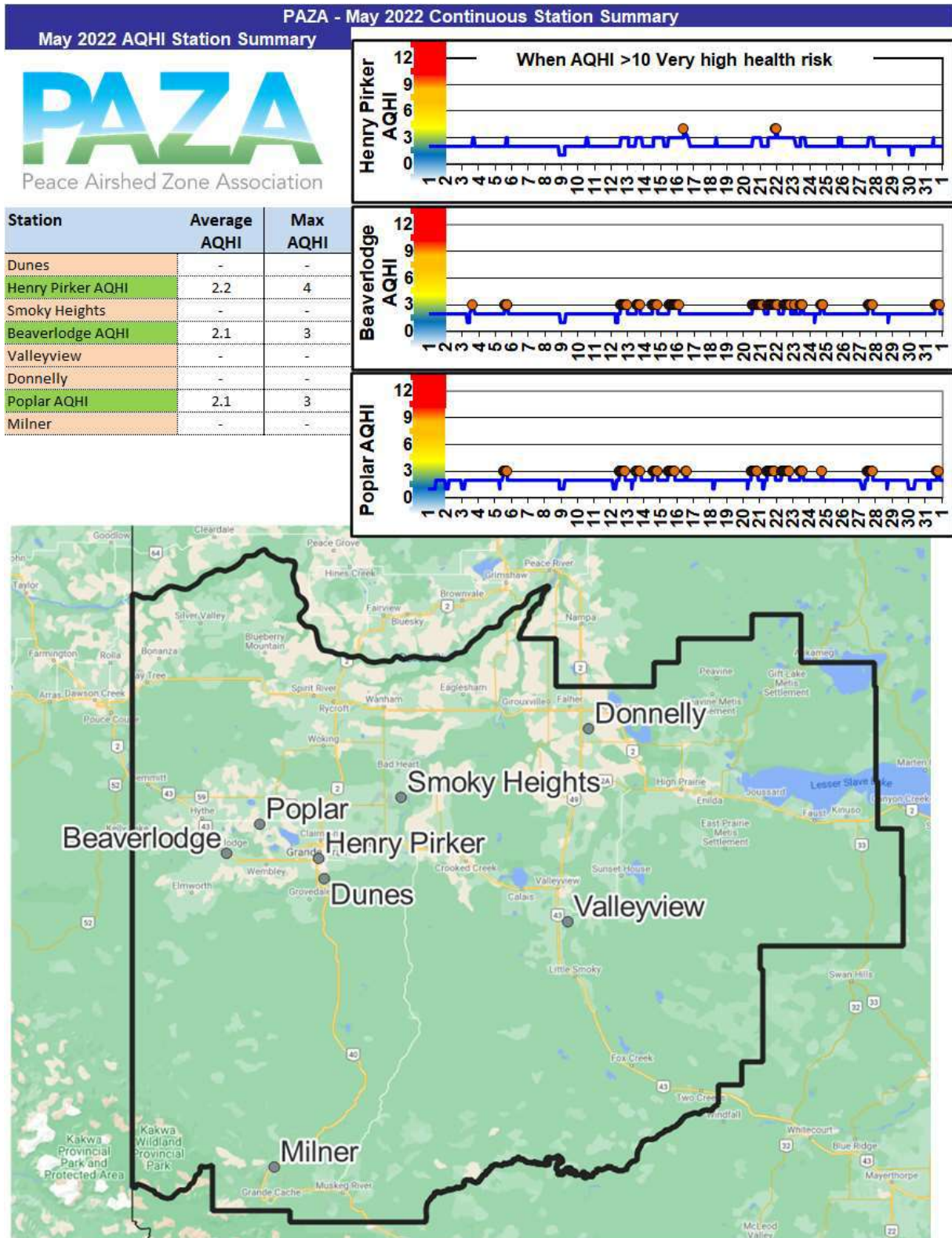


Milner May 2022 Wind Rose, wind speed in km/hr

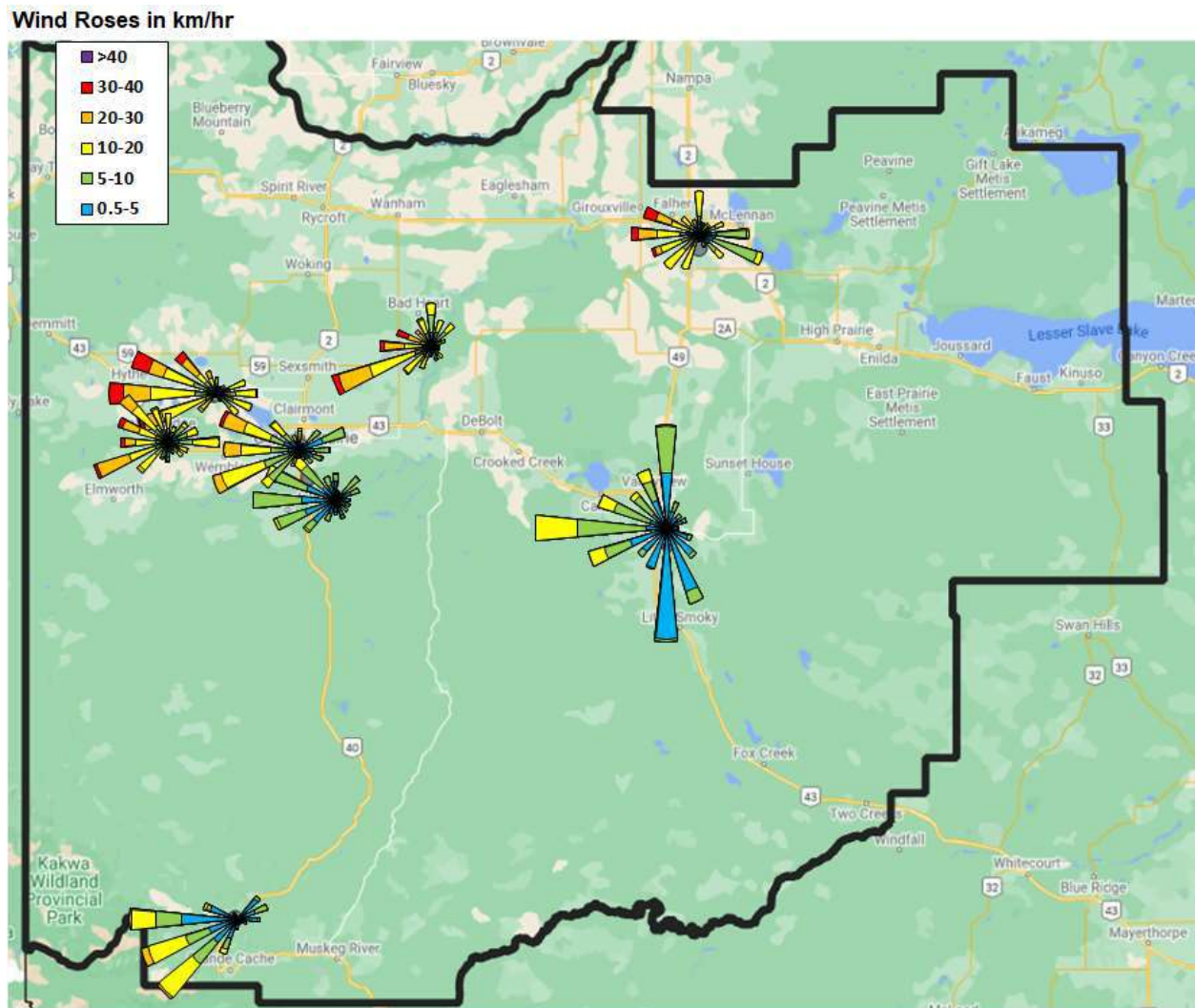
10 Concentration Summaries and Roses for PAZA



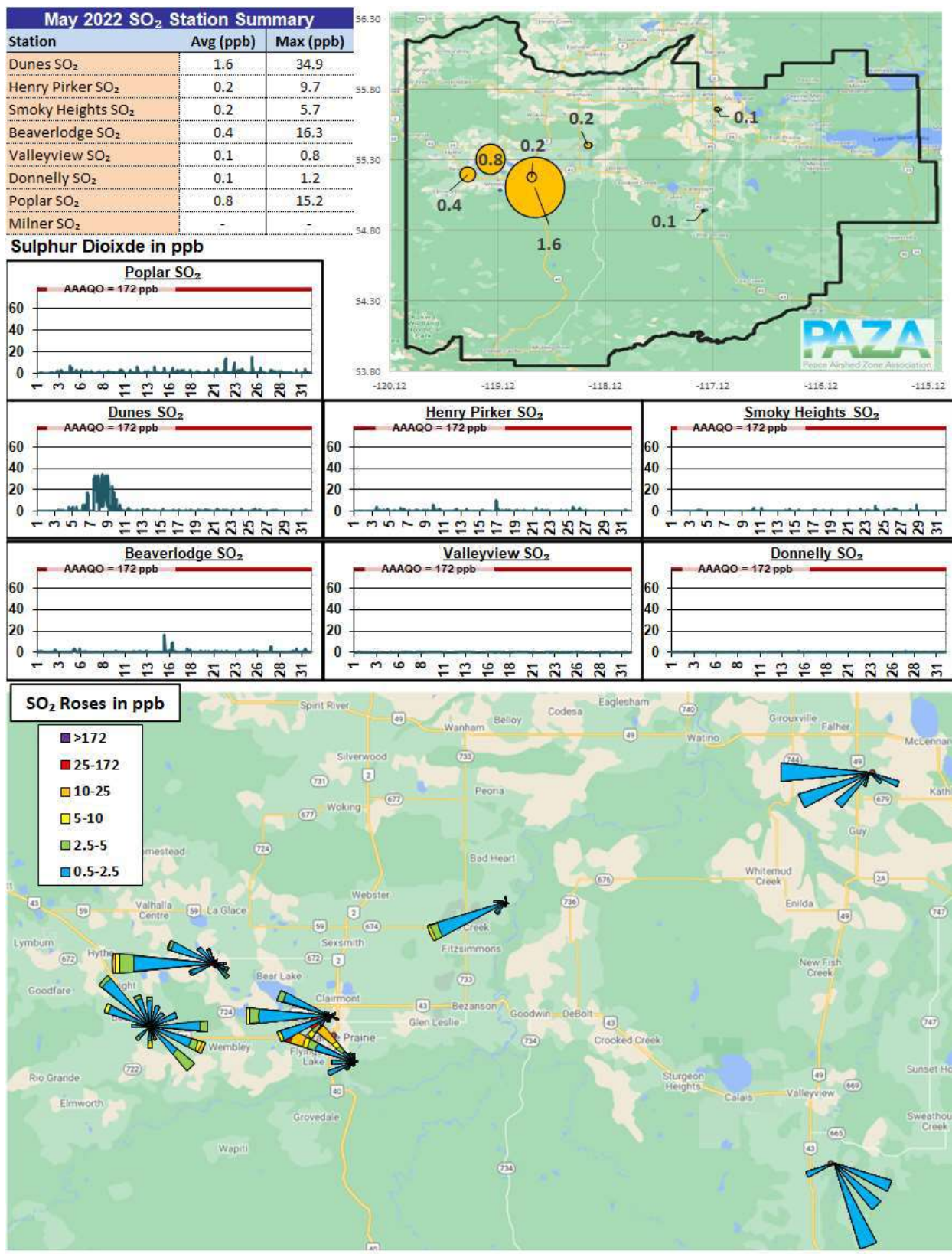
10.1 Air Quality Health Index (AQHI) Plots



10.2 Wind Roses

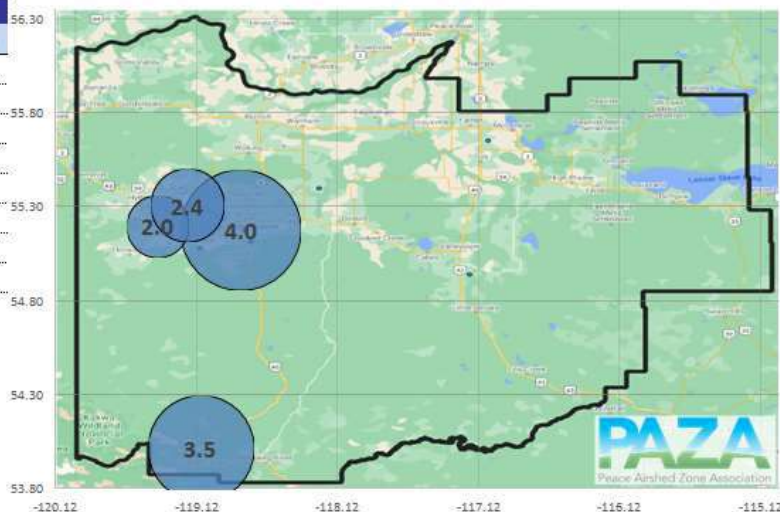


10.3 Sulphur Dioxide (SO₂) Plots

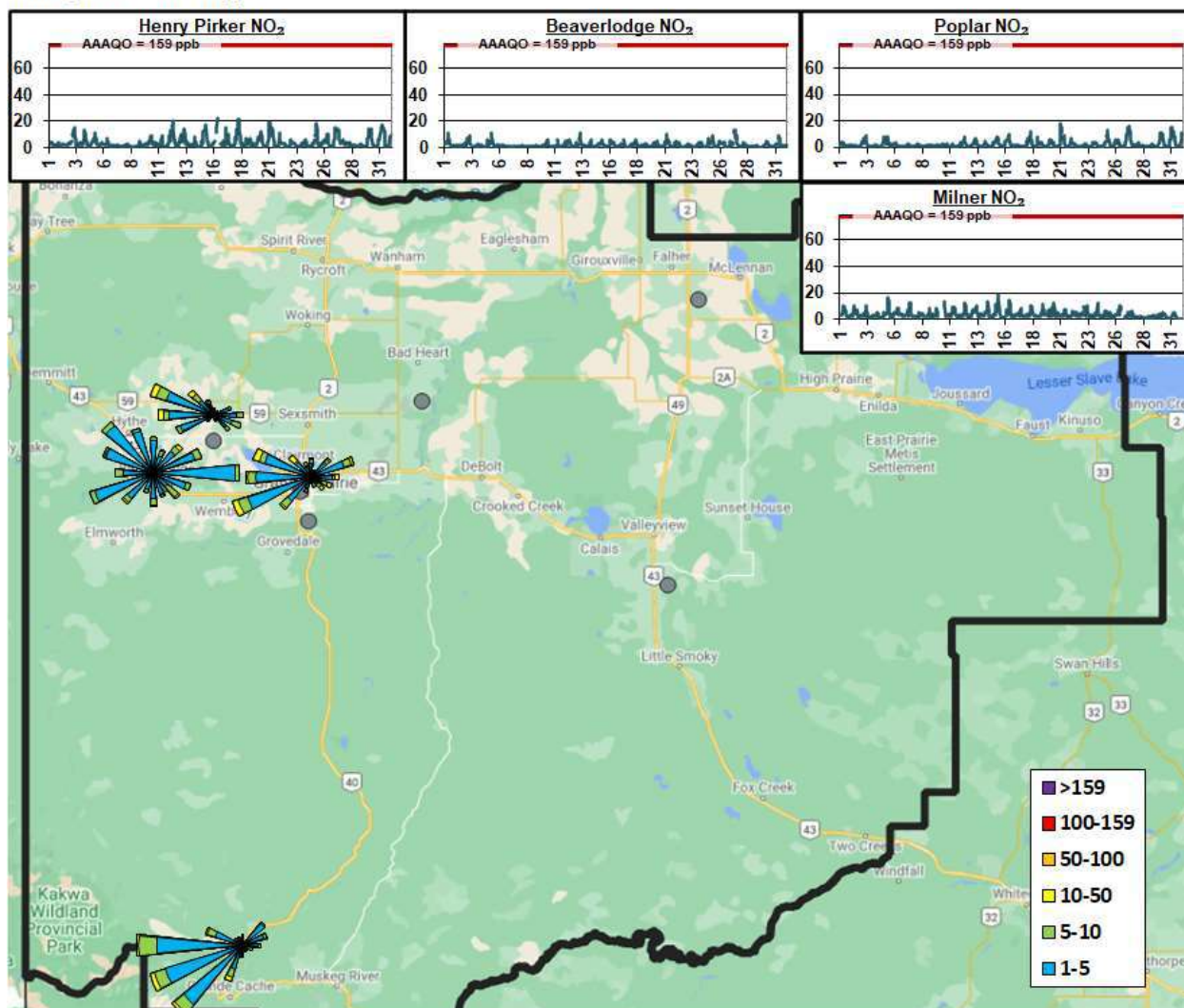


10.4 Nitrogen Dioxide (NO₂) Plots

May 2022 NO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	4.0	22.7
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	2.0	13.5
Valleyview NO ₂	-	-
Donnelly NO ₂	-	-
Poplar NO ₂	2.4	18.0
Milner NO ₂	3.5	18.1

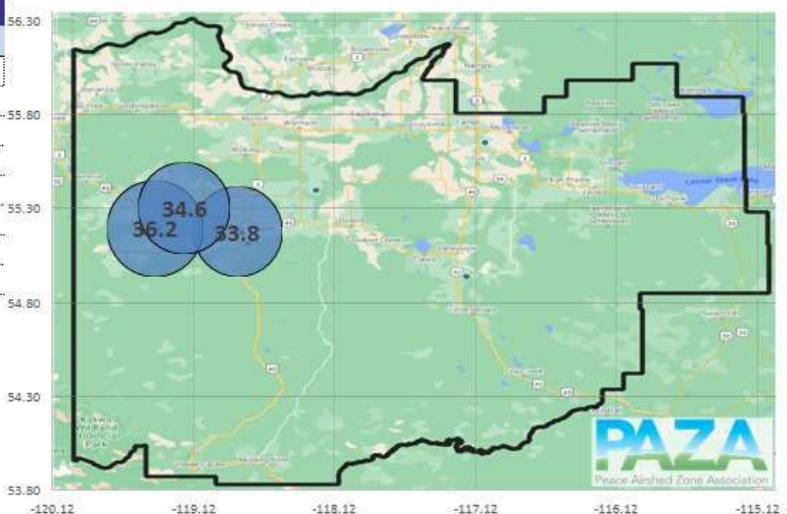


Nitrogen Dioxide in ppb

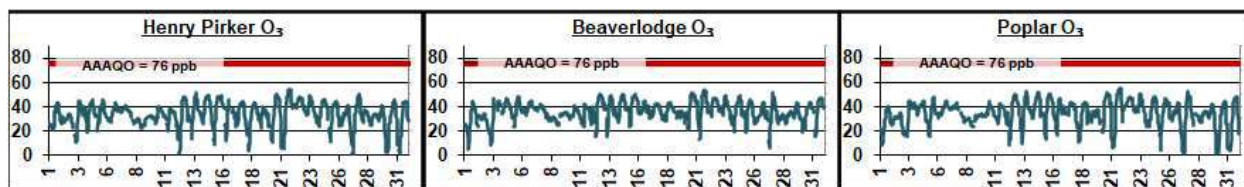


10.5 Ozone (O₃) Plots

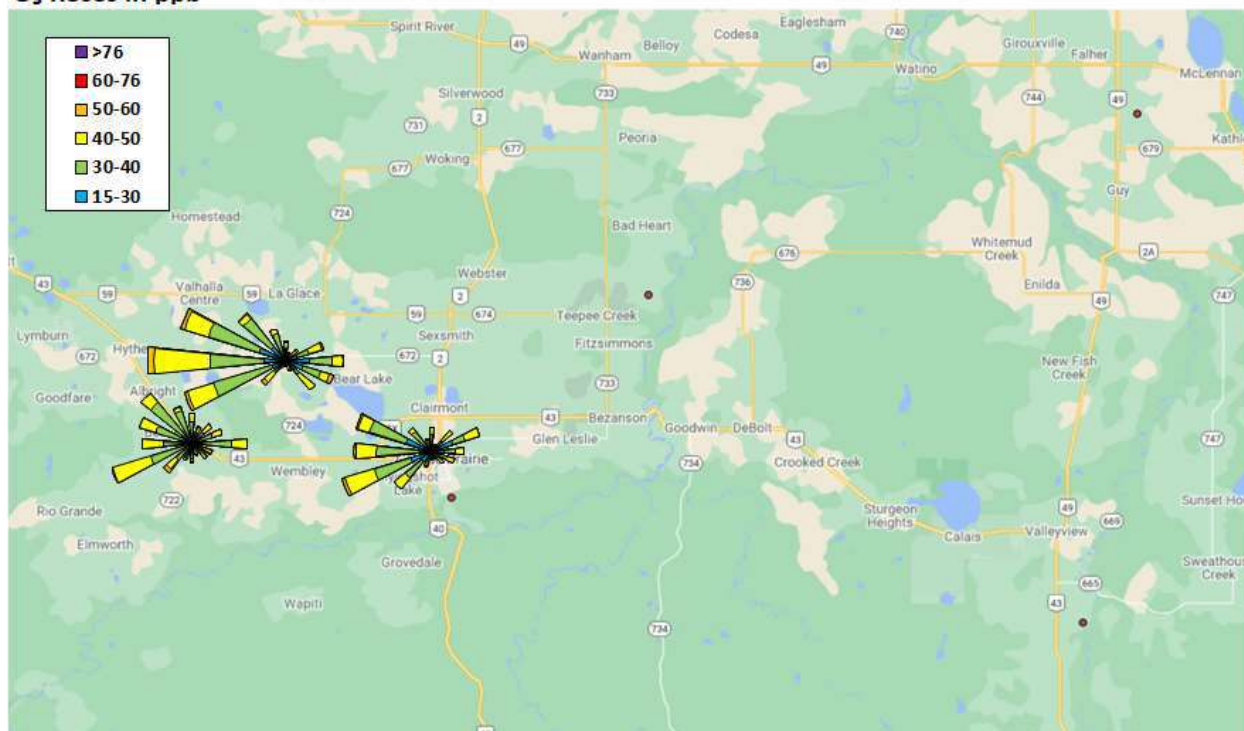
May 2022 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	33.8	54.6
Smoky Heights O ₃	-	-
Beaverlodge O ₃	36.2	53.7
Valleyview O ₃	-	-
Donnelly O ₃	-	-
Poplar O ₃	34.6	54.7
Milner O ₃	-	-



Ozone in ppb

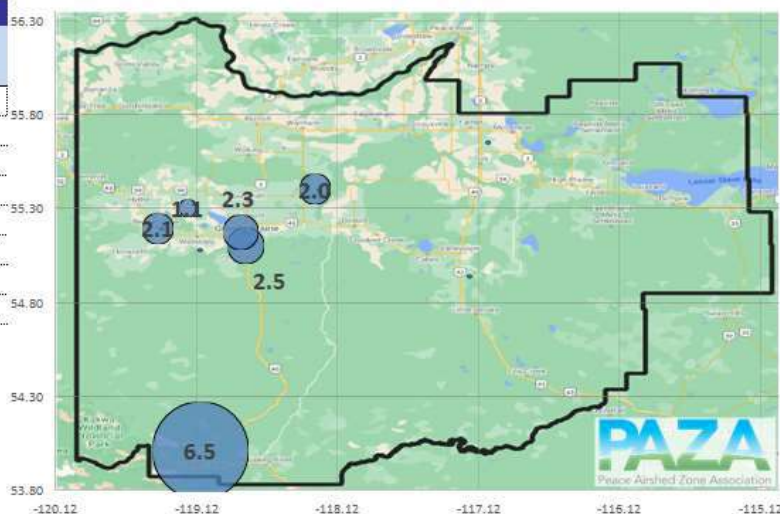


O₃ Roses in ppb

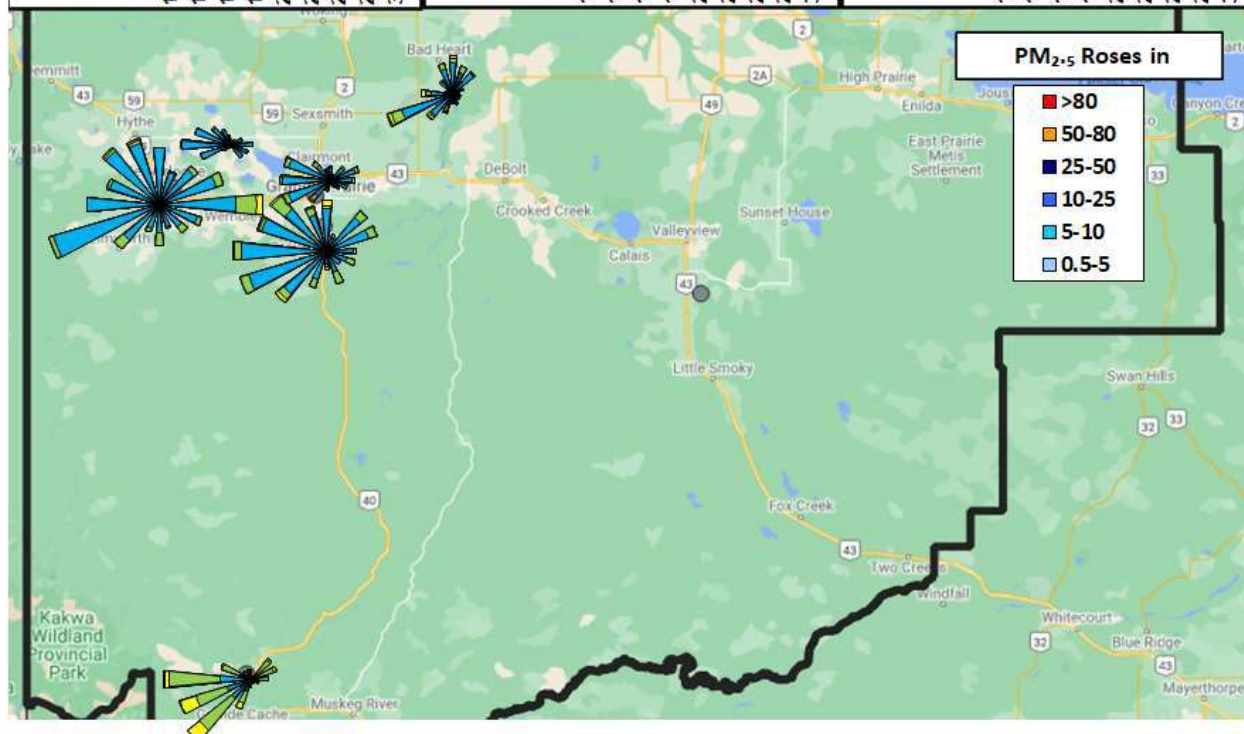
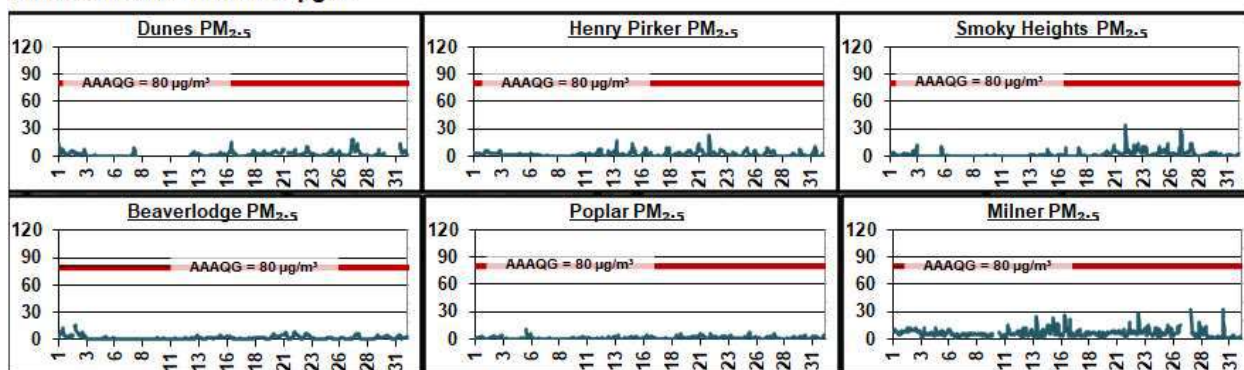


10.6 Fine Particulate Matter (PM_{2.5}) Plots

May 2022 PM _{2.5} Station Summary		
Station	Avg µg/m ³	Max µg/m ³
Dunes PM _{2.5}	2.5	19.3
Henry Pirkler PM _{2.5}	2.3	22.9
Smoky Heights PM _{2.5}	2.0	34.3
Beaverlodge PM _{2.5}	2.1	16.7
Valleyview PM _{2.5}	-	-
Donnelly PM _{2.5}	-	-
Poplar PM _{2.5}	1.1	11.4
Milner PM _{2.5}	6.5	32.4

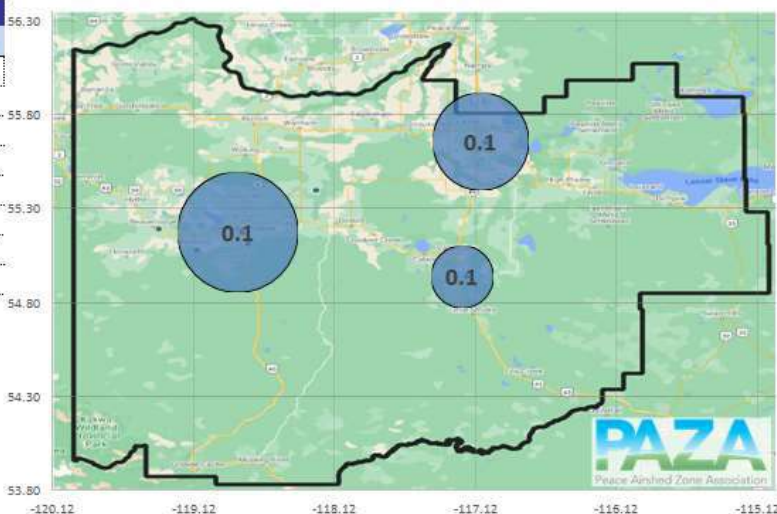


Fine Particulate Matter in µg/m³

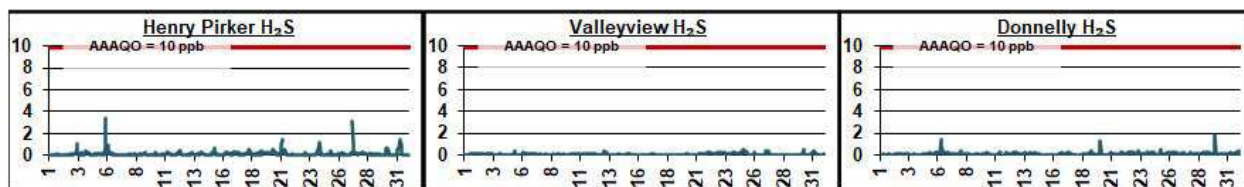


10.7 Hydrogen Sulphide (H₂S) Plots

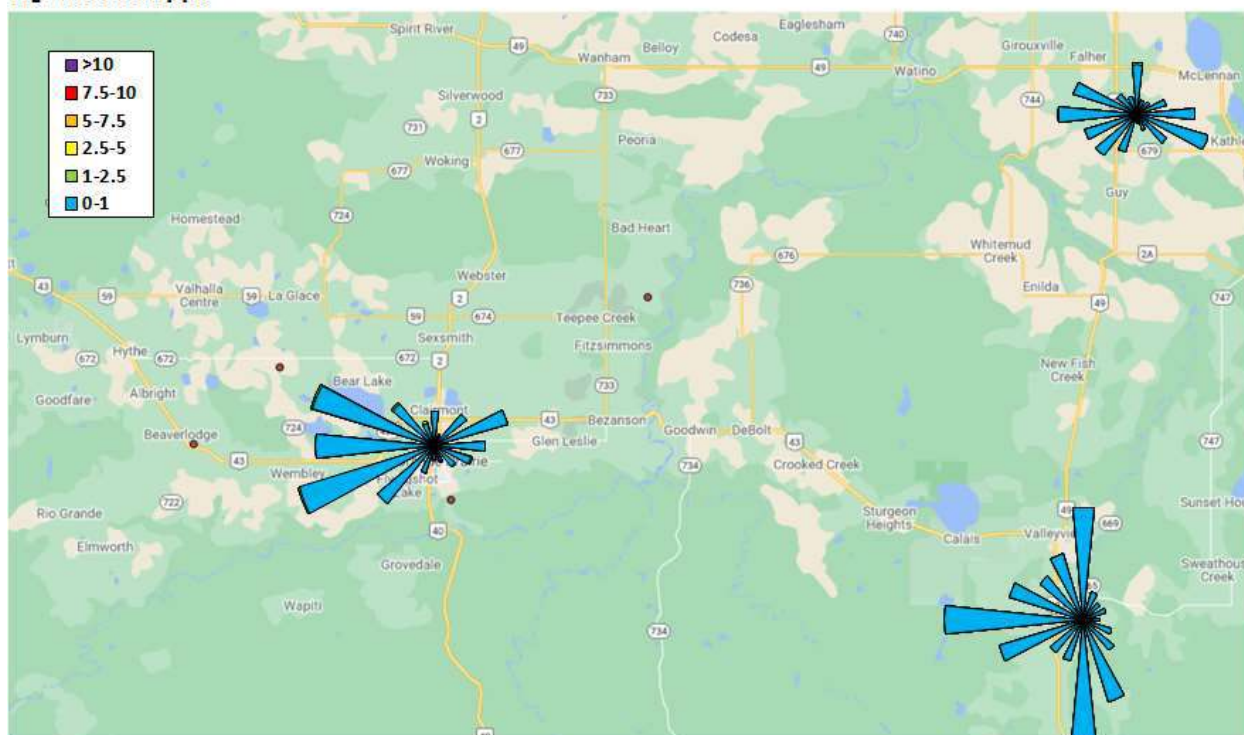
May 2022 H ₂ S Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirker H ₂ S	0.1	3.4
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.6
Donnelly H ₂ S	0.1	1.8
Poplar H ₂ S	-	-
Milner H ₂ S	-	-



Hydrogen Sulphide in ppb

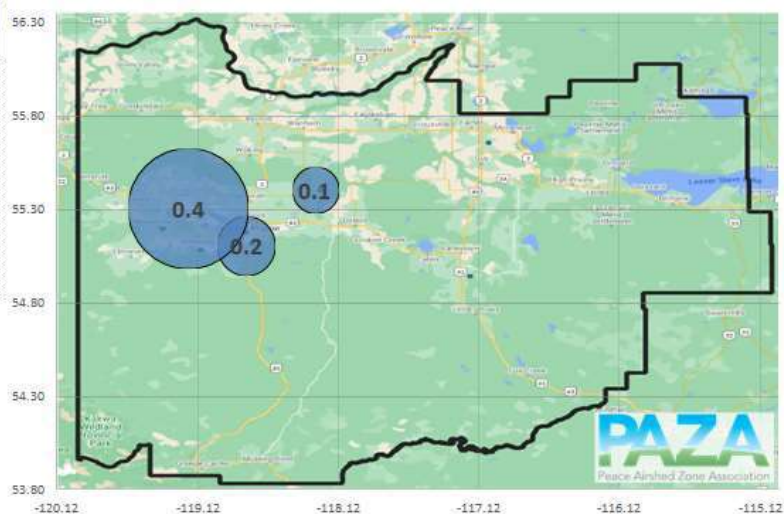


H₂S Roses in ppb

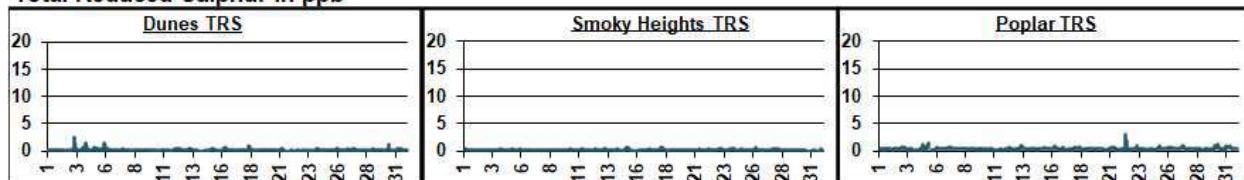


10.8 Total Reduced Sulphur (TRS) Plots

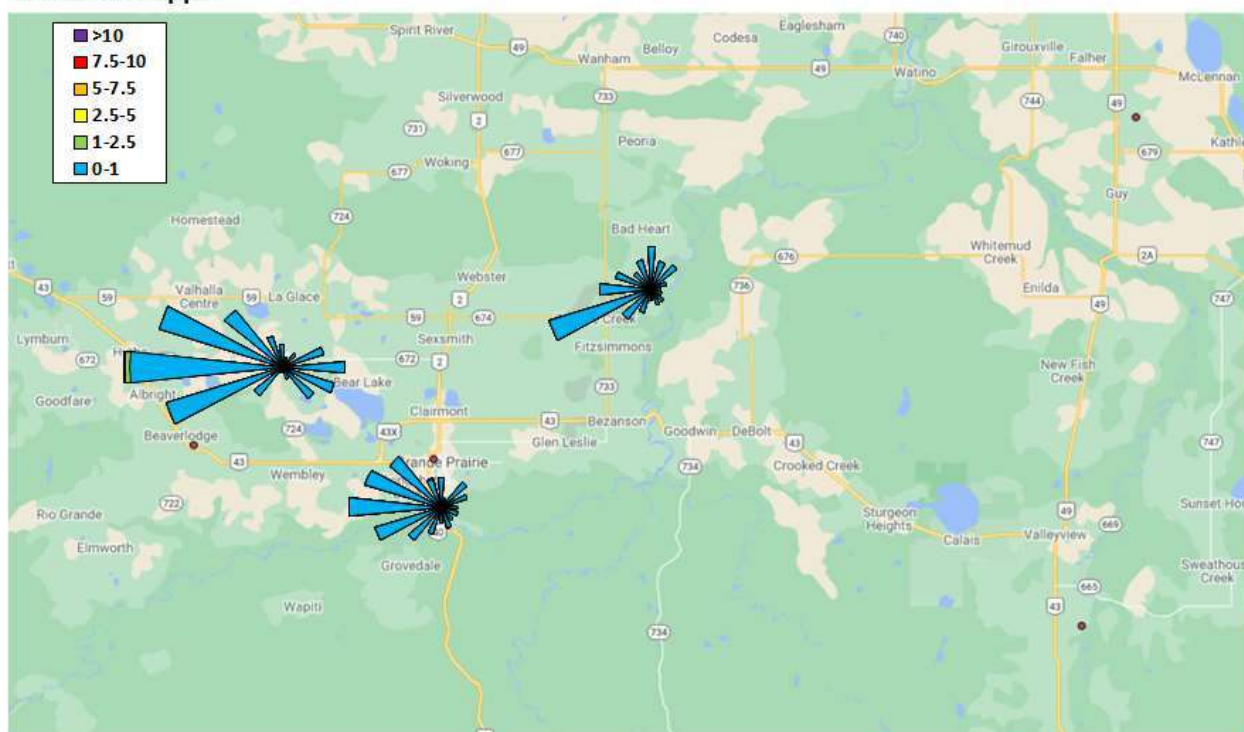
May 2022 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.2	2.4
Henry Piker TRS	-	-
Smoky Heights TRS	0.1	0.7
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Donnelly TRS	-	-
Poplar TRS	0.4	3.1
Milner TRS	-	-



Total Reduced Sulphur in ppb



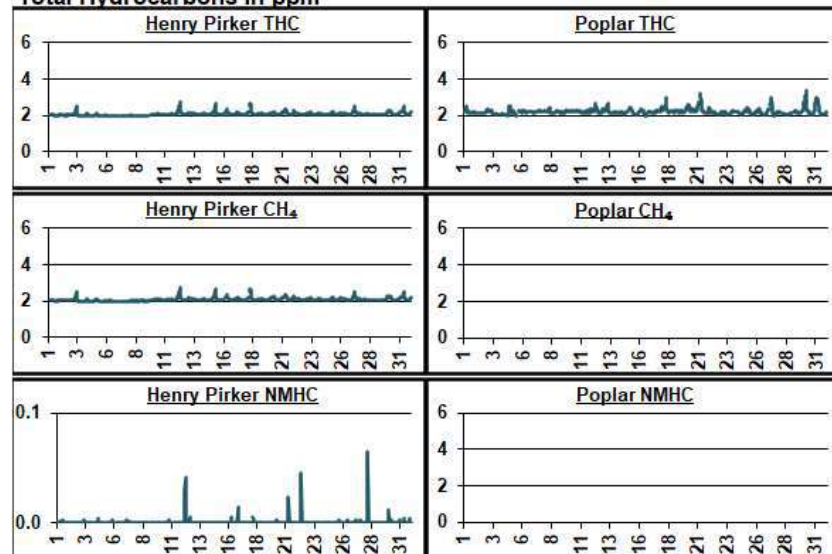
TRS Roses in ppb



10.9 Total Hydrocarbon (THC) Plots

May 2022 THC Station Summary						
Station	Total Hydrocarbons		Methane		Non-Methane HCs	
	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)
Dunes THC	-	-	-	-	-	-
Henry Pirker THC	2.1	2.8	2.1	2.7	0.0	0.1
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Donnelly THC	-	-	-	-	-	-
Poplar THC	2.2	3.4	-	-	-	-

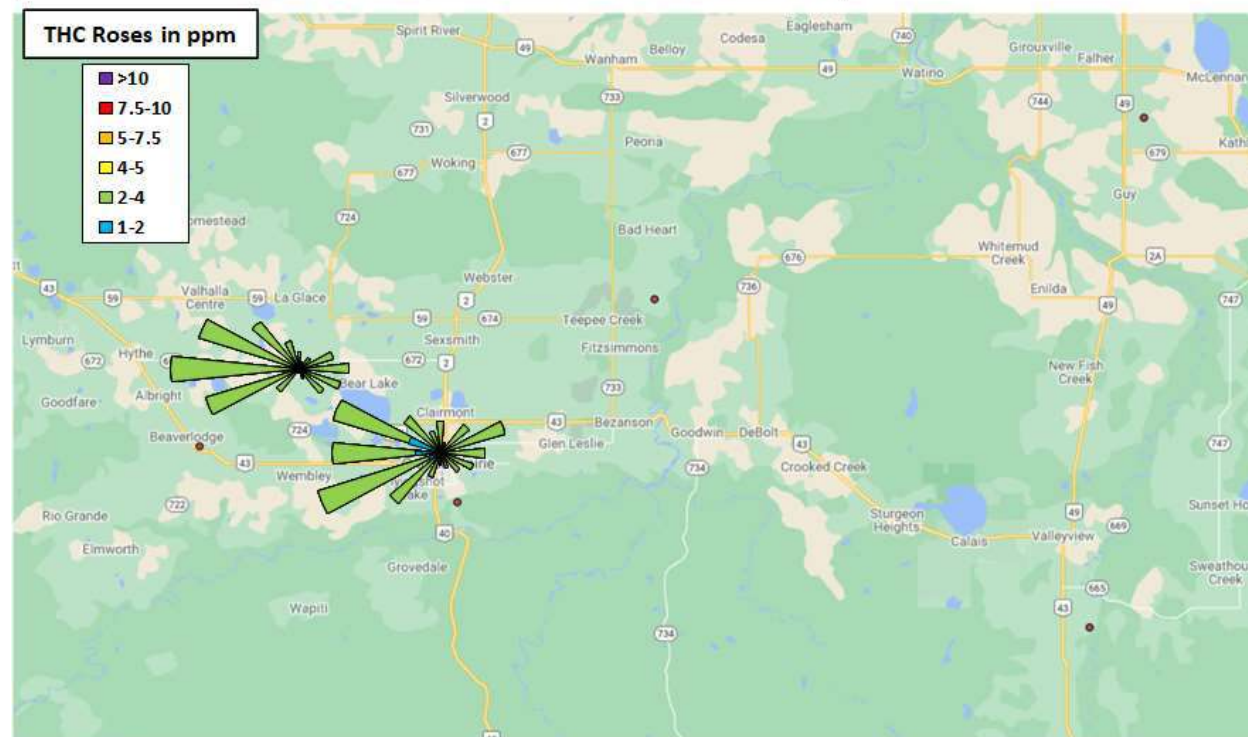
Total Hydrocarbons in ppm



Total Hydrocarbons (THC)

Methane (CH₄)

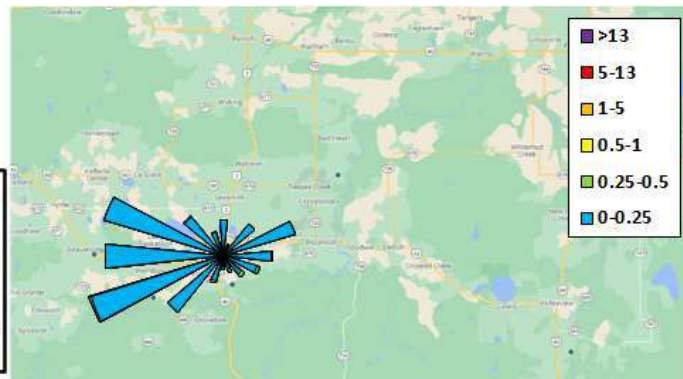
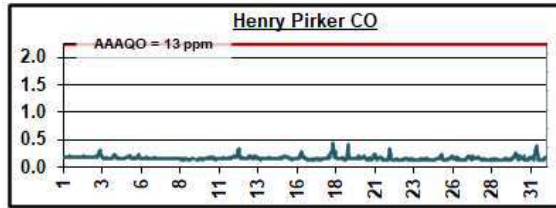
Non-Methane Hydrocarbons (NMHC)



10.10 Carbon Monoxide (CO) Plots

May 2022 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Pirker CO	0.16	0.45

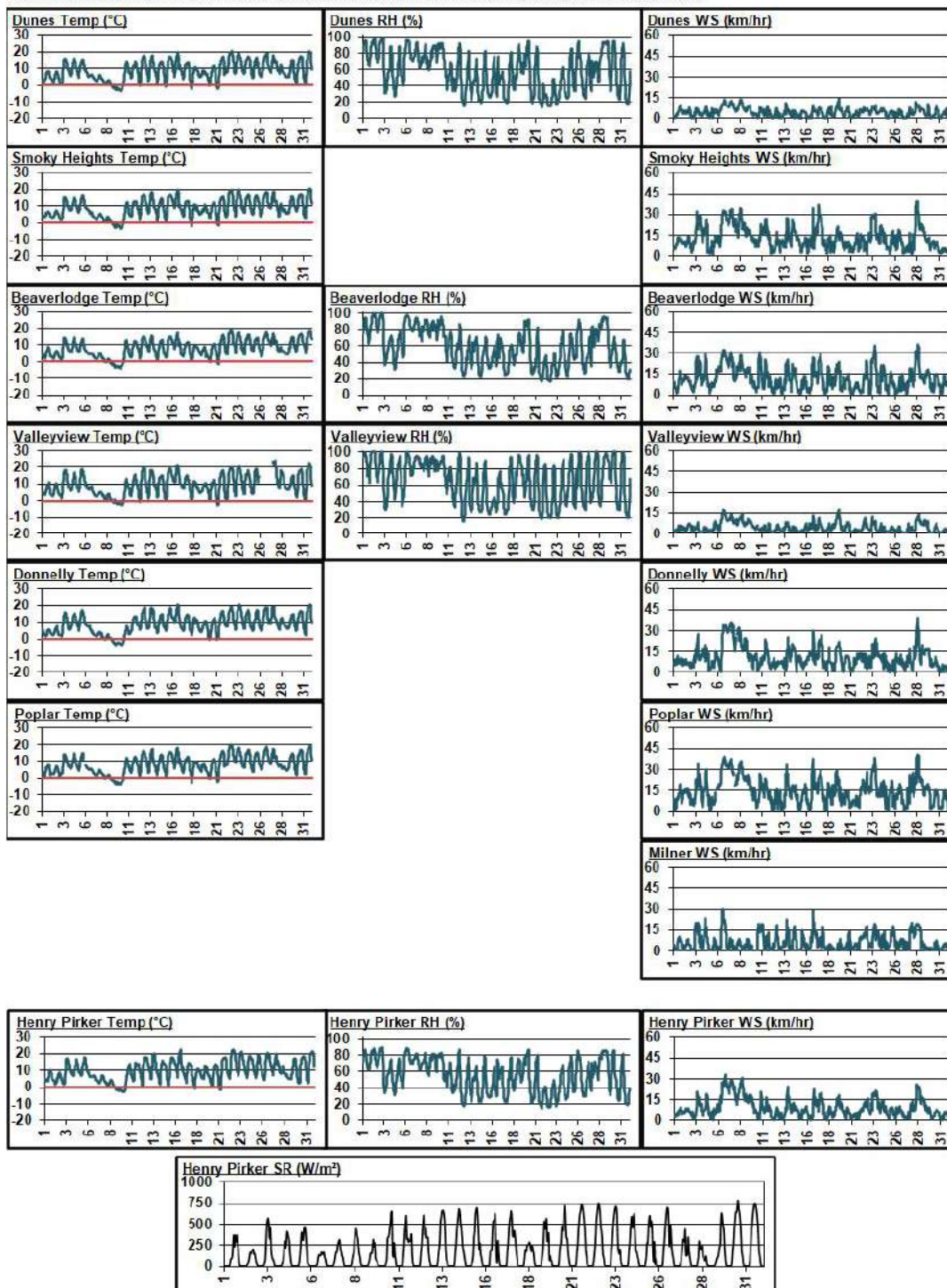
Carbon Monoxide in ppm



10.11 Meteorology Summary

May 2022 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m ²)	WS (km/hr)	WD (deg)	WD
Dunes	8.7	57.7	-	4.7	289	WNW
Henry Pirkler	9.6	54.9	173.7	9.2	274	W
Smoky Heights	8.8	-	-	13.3	271	W
Beaverlodge	8.0	59.5	-	12.2	285	WNW
Valleyview	9.4	65.1	-	4.8	282	WNW
Donnelly	9.0	-	-	11.0	273	W
Poplar	8.2	-	-	14.8	283	WNW
Milner	-	-	-	6.2	243	242.8

Temp (°C) Outside Temperature
 RH (%) Relative Humidity
 SR (W/m²) Solar Radiation
 WS (km/hr) Wind Speed
 WD (deg) Wind Direction
 WD Wind Direction



11 Passive Monitoring Data

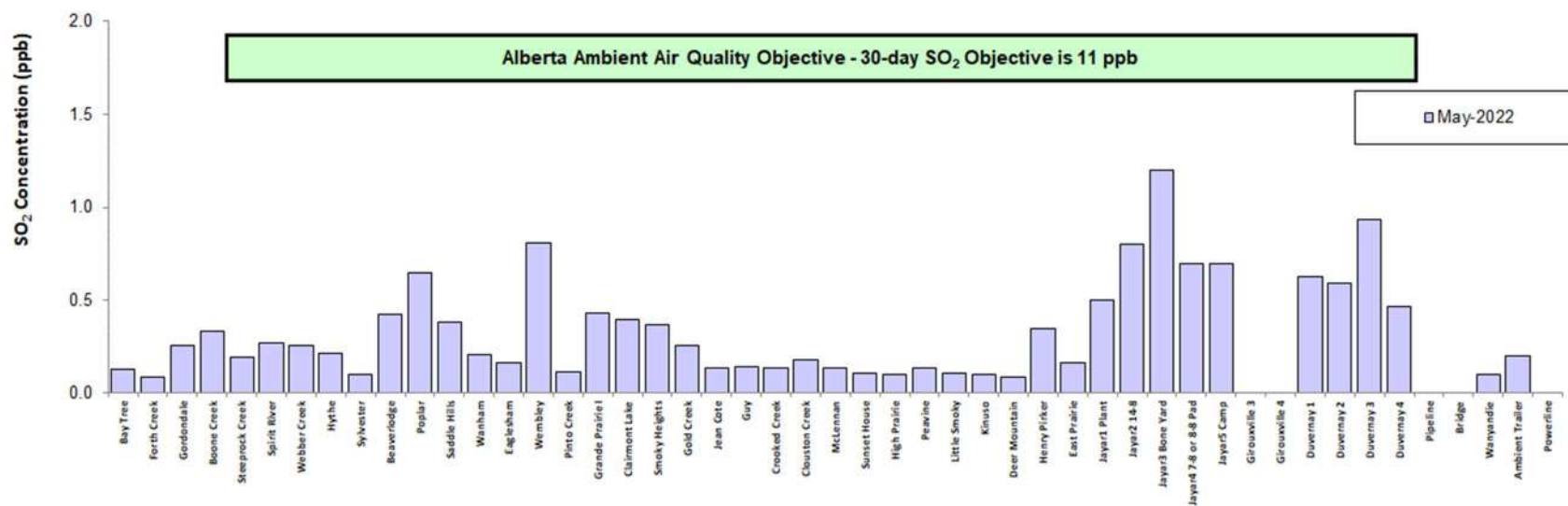
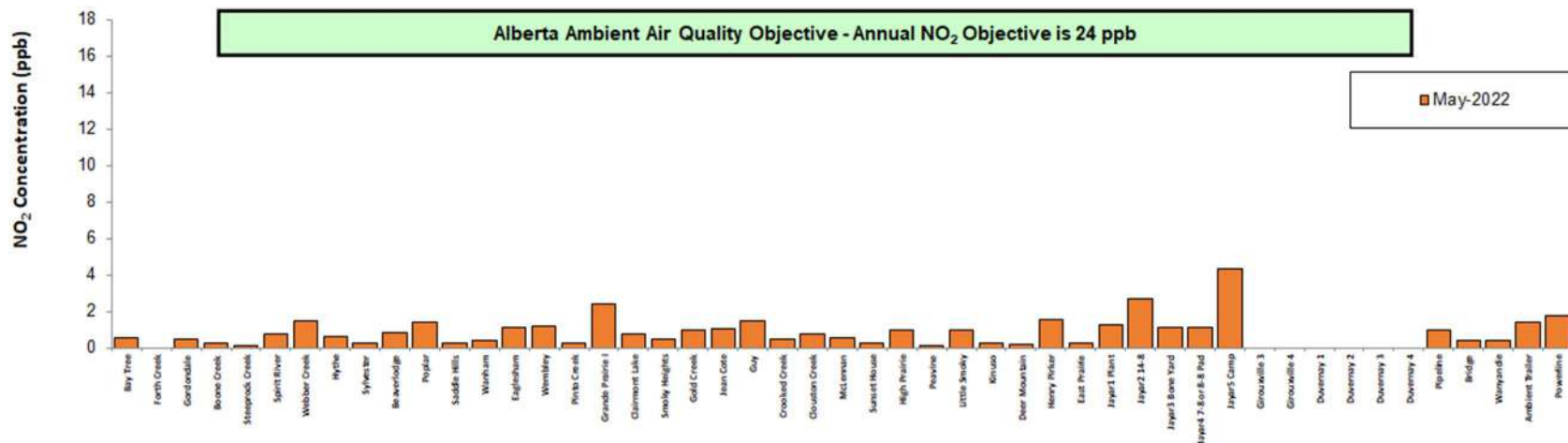
Peace Airshed Zone Association - PAZA Passive Stations for May 2022

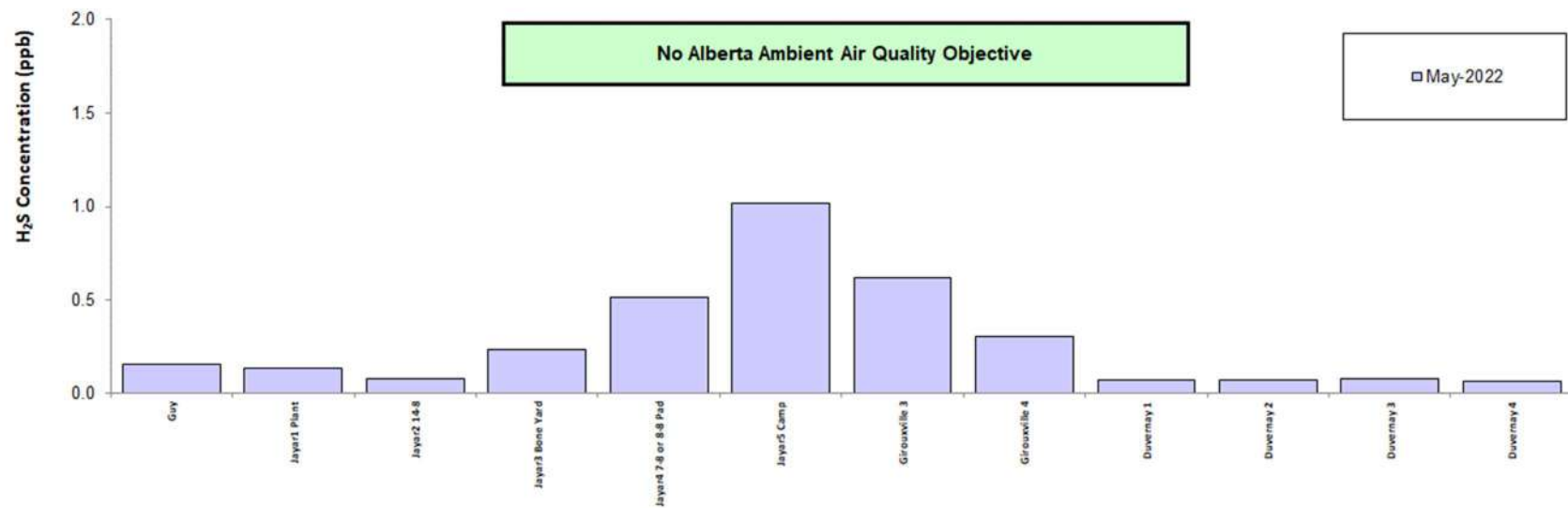
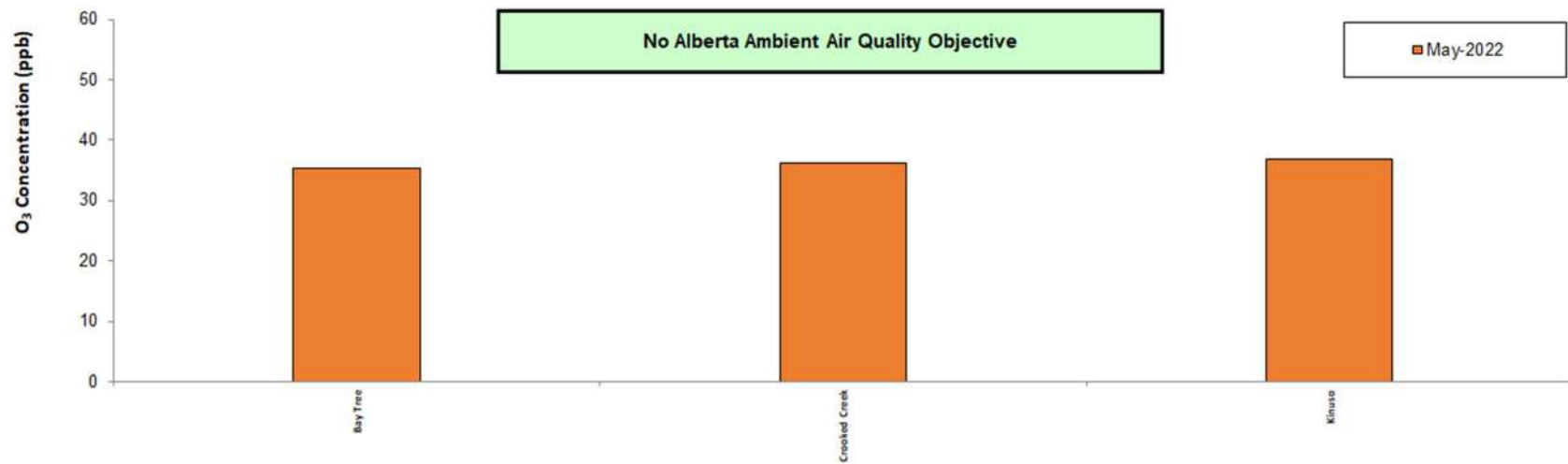
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
21a	Eaglesham			1.2		16-21-079-25 W5M
21b	Eaglesham			1.1		
35a	Jean Cote	0.1				12-35-079-21 W5M
35b	Jean Cote	0.1				
36a	Guy	0.1				03-04-076-22 W5M
36b	Guy	0.1				
40a	McLennan			0.6		03-29-077-19 W5M
40b	McLennan			0.5		
43a	High Prairie	0.1				16-13-074-17 W5M
43b	High Prairie	0.1				
44a	Peavine			0.1		03-05-079-15 W5M
44b	Peavine			0.1		
47a	Kinuso	0.1	36.1	0.2		12-10-073-10 W5M
47b	Kinuso	0.1	37.6	0.3		
G3a	Girouxville 3				0.6	14-02-077-23 W5M
G3b	Girouxville 3				0.6	
D2a	Duvernay 2	0.4			0.1	04-33-062-20 W5M
D2b	Duvernay 2	0.8			0.1	
J1a	Jayar1 Plant				0.1	06-08-062-03 W6M
J1b	Jayar1 Plant				0.1	
J4a	Jayar4 7-8 or 8-8 Pad			1.1		10-08-062-03 W6M
J4b	Jayar4 7-8 or 8-8 Pad			1.2		
J3a	Jayar3 Bone Yard	1.2				14-08-062-03 W6M
J3b	Jayar3 Bone Yard	1.2				
M5a	Powerline			1.7		06-14-058-08 W6M
M5b	Powerline			1.8		
M3a	Wanyandie	<0.1				11-13-058-08 W6M
M3b	Wanyandie	0.1				

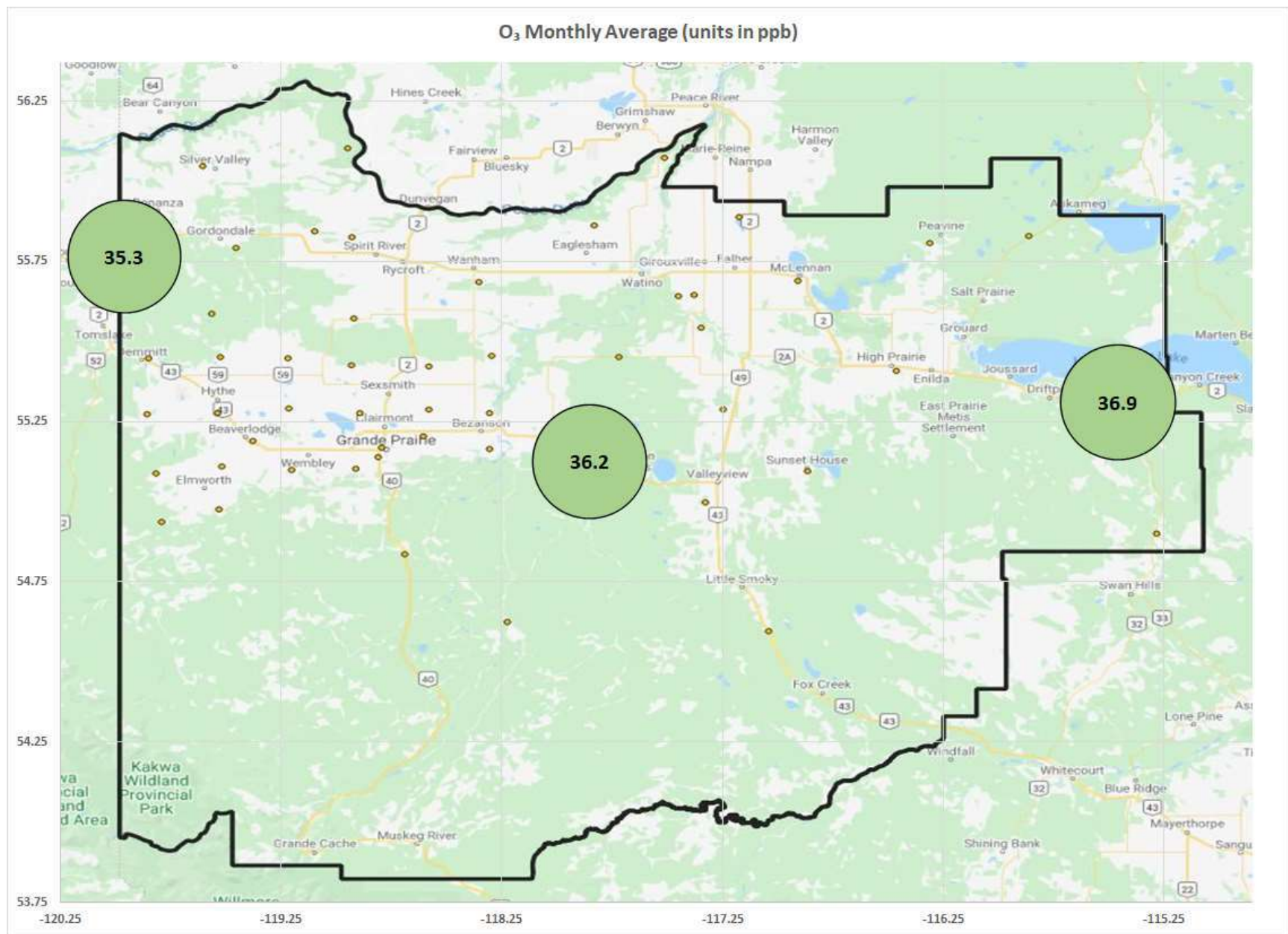
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.1	35.3	0.5	-	13-16-078-13 W6M
3	Forth Creek	0.1	-	-	-	04-13-082-07 W6M
4	Gordondale	0.3	-	0.5	-	04-34-078-10 W6M
5	Boone Creek	0.3	-	0.3	-	01-23-076-11 W6M
7	Steeprock Creek	0.2	-	0.1	-	09-35-072-13 W6M
9	Spirit River	0.3	-	0.8	-	08-12-079-07 W6M
11	Webber Creek	0.3	-	1.5	-	09-36-074-09 W6M
12	Hythe	0.2	-	0.6	-	14-36-072-11 W6M
14	Sylvester	0.1	-	0.3	-	08-06-069-12 W6M
16	Beaverlodge	0.4	-	0.8	-	15-36-071-10 W6M
17	Poplar	0.6	-	1.4	-	13-06-073-08 W6M
18	Saddle Hills	0.4	-	0.3	-	04-25-074-07 W6M
19	Wanham	0.2	-	0.4	-	16-22-077-03 W6M
21	Eaglesham	0.2	-	1.1	-	16-21-079-25 W5M
24	Wembley	0.8	-	1.2	-	12-31-070-08 W6M
25	Pinto Creek	0.1	-	0.3	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	2.4	-	08-15-071-06 W6M
28	Clairmont Lake	0.4	-	0.7	-	09-06-073-04 W6M
29	Smoky Heights	0.4	-	0.5	-	04-06-075-02 W6M
32	Gold Creek	0.3	-	1.0	-	06-33-067-05 W6M
35	Jean Cote	0.1	-	1.1	-	12-35-079-21 W5M
36	Guy	0.1	-	1.5	0.2	03-04-076-22 W5M
37	Crooked Creek	0.1	36.2	0.5	-	16-01-071-26 W5M
39	Clouston Creek	0.2	-	0.8	-	12-01-073-22 W5M
40	McLennan	0.1	-	0.5	-	03-29-077-19 W5M
42	Sunset House	0.1	-	0.2	-	05-32-070-19 W5M
43	High Prairie	0.1	-	1.0	-	16-13-074-17 W5M
44	Peavine	0.1	-	0.1	-	03-05-079-15 W5M
46	Little Smoky	0.1	-	1.0	-	12-01-065-21 W5M
47	Kinuso	0.1	36.9	0.2	-	12-10-073-10 W5M
48	Deer Mountain	0.1	-	0.2	-	15-22-068-09 W5M
49	Henry Pirker	0.3	-	1.5	-	17-26-071-06 W6M
50	East Prairie	0.2	-	0.3	-	11-13-079-08 W6M
57	Jayar1 Plant	0.5	-	1.3	0.1	06-08-062-03 W6M
58	Jayar2 14-8	0.8	-	2.7	0.1	07-08-062-03 W6M
59	Jayar3 Bone Yard	1.2	-	1.1	0.2	14-08-062-03 W6M
60	Jayar4 7-8 or 8-8 Pad	0.7	-	1.2	0.5	10-08-062-03 W6M
61	Jayar5 Camp	0.7	-	4.3	1.0	11-08-062-03 W6M
G3	Girouxville 3	-	-	-	0.6	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	0.3	04-08-077-22 W5M
D1	Duvernay 1	0.6	-	-	0.1	04-33-062-20 W5M
D2	Duvernay 2	0.6	-	-	0.1	04-33-062-20 W5M
D3	Duvernay 3	0.9	-	-	0.1	04-33-062-20 W5M
D4	Duvernay 4	0.5	-	-	0.1	04-33-062-20 W5M
M1	Pipeline	<0.1	-	1.0	-	12-14-058-08 W6M
M2	Bridge	<0.1	-	0.4	-	08-06-057-08 W6M
M3	Wanyandie	0.1	-	0.4	-	11-13-058-08 W6M
M4	Ambient Trailer	0.2	-	1.4	-	09-15-058-08 W6M
M5	Powerline	<0.1	-	1.8	-	06-14-058-08 W6M

Passive Summary for May 2022

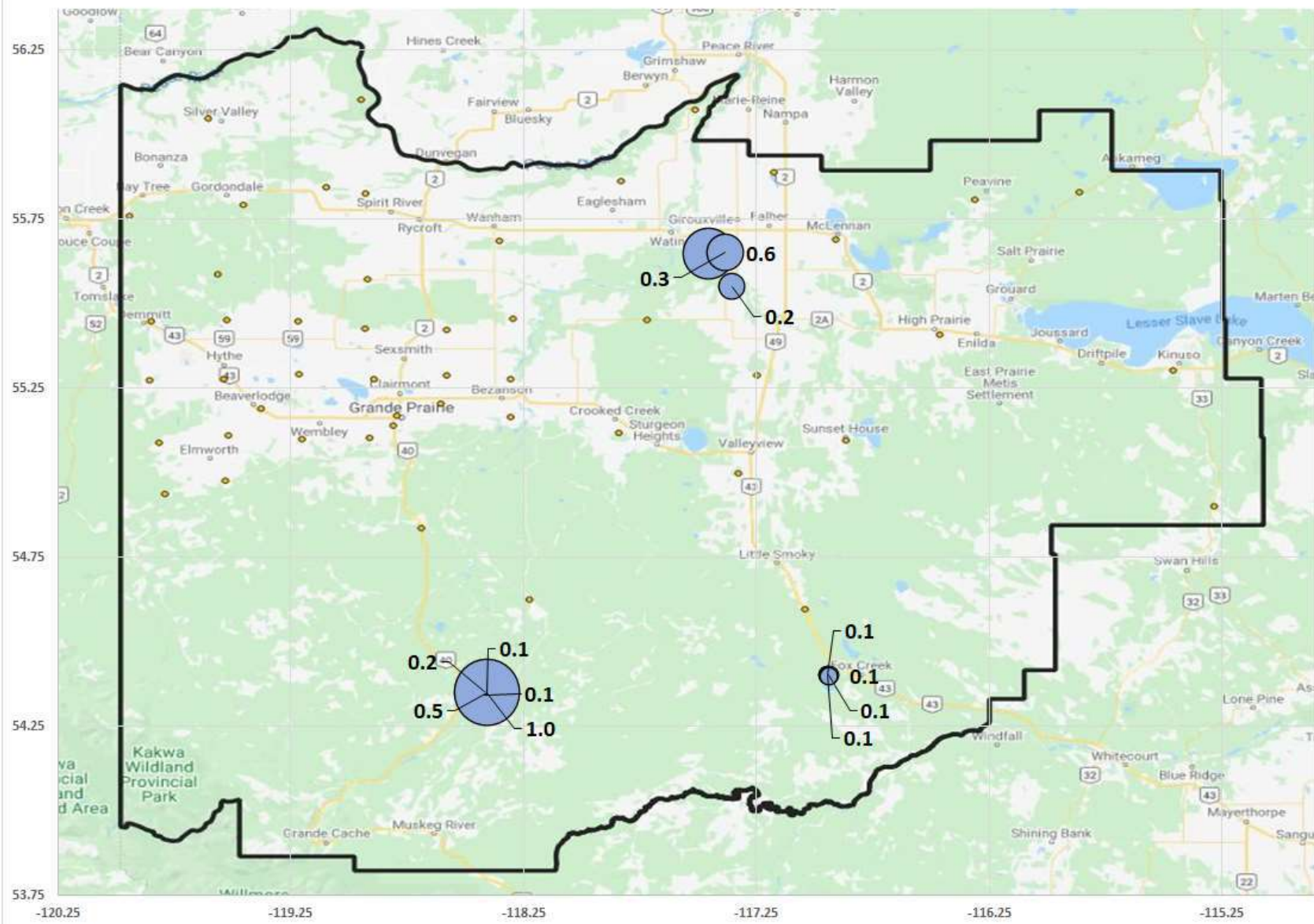
Stats	Sulphur Dioxide SO ₂ ppb	Ozone O ₃ ppb	Nitrogen Dioxide NO ₂ ppb	Hydrogen Sulphide H ₂ S ppb
Passive Summary for May 2022 (PAZA)				
Mean	0.3	36.1	0.9	0.3
Standard Deviation	0.3	0.8	0.8	0.3
Minimum	0.1	35.3	0.1	0.1
	Forth Creek (#3)	Bay Tree (#2)	Peavine (#44)	Duvernay 4 (#D4)
Maximum	1.2	36.9	4.3	1.0
	Jayar3 Bone Yard (#59)	Kinuso (#47)	Jayar5 Camp (#61)	Jayar5 Camp (#61)
Continuous and Passive Monitoring Comparison				
PAZA Beaverlodge Station	0.4	36.2	2.0	-
Beaverlodge Passive (#16)	0.4	-	0.8	-
PAZA Henry Pirker Station	0.2	33.8	4.0	0.1
Henry Pirker passive (#49)	0.3	-	1.5	-
Milner Station	-	-	3.5	-
Henry Pirker passive (#49)	0.2	-	1.4	-







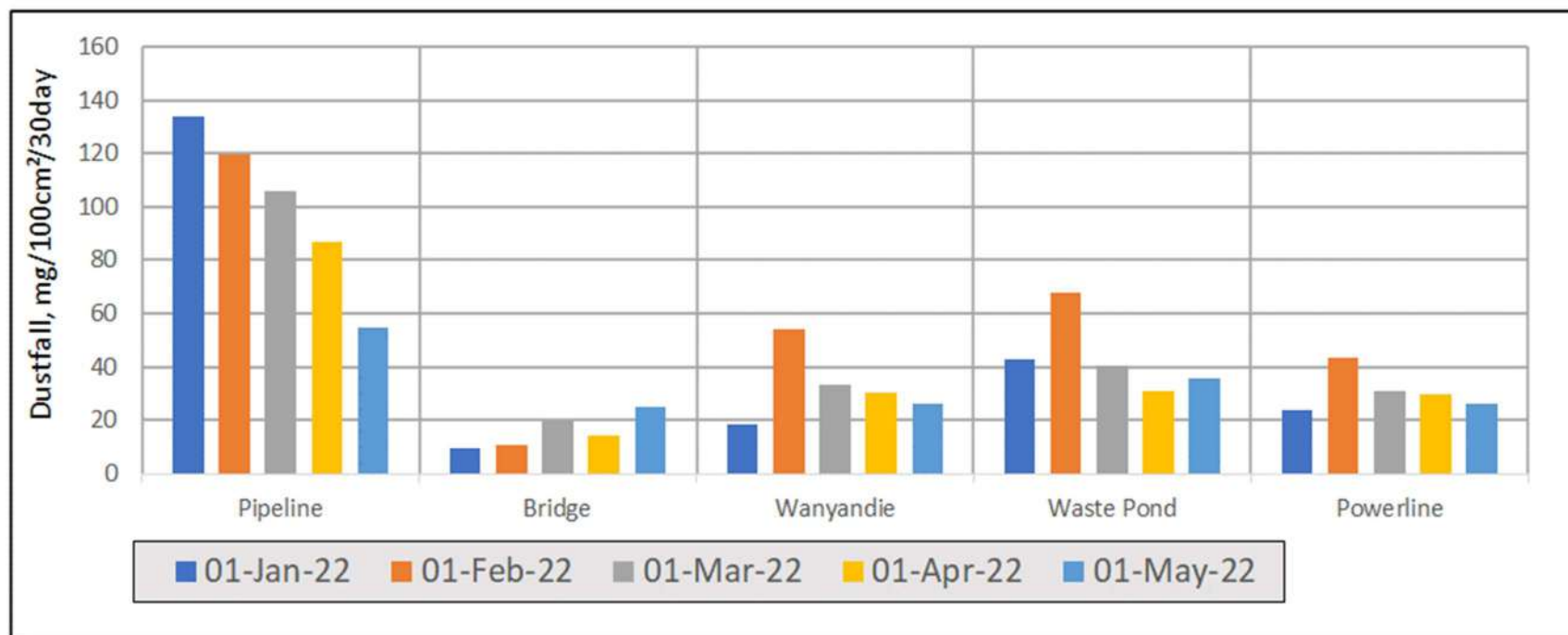
H₂S Monthly Average (units in ppb)



12 Dustfall Monitoring Data

Milner Dustfall Samples May 2022

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
May	2022	Pipeline	54.8	26.7	33	On collection Dustfall sample was dry
May	2022	Bridge	24.7	12.7	33	On collection Dustfall sample was dry
May	2022	Wanyandie	26.0	12.0	33	On collection Dustfall sample was dry
May	2022	Waste Pond	35.4	15.4	33	On collection Dustfall sample was dry
May	2022	Powerline	26.0	7.3	33	On collection Dustfall sample was dry
May	2022	Powerline Dup	19.4	9.4	33	RPD= 29% / 25%



End of Report



Peace Airshed Zone Association

Ambient Air Monitoring Report

May 2022